010.5
S 32B

ASLIB BOOK-LIST

CU6-H604116-8-P015768

MONTHLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

8

VOLUME 20 NUMBER 1
JANUARY 1955
Nos. 1-85

Aslib members: 12s. p.a.
Non-members: 21s. p.a.

Aslib
4 PALACE GATE, LONDON, W.8

P15788

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 20 *Number 1* *January 1955*

GENERAL SCIENCE

BERNAL, J. D.

Science in history. Watts, 1954. pp.xxiv,967, plates, illus., diagrs., bibliog. 42s. *(A) 1*

NEEDHAM, J.

Science and civilisation in China. Vol. 1: Introductory orientations; by J. Needham with the research assistance of W. Ling. Cambridge, C.U.P., 1954. pp.xxxviii,318, plates, illus., tables, bibliog. 52s. 6d. *(B) 2*

OPPENHEIMER, J. R.

Science and the common understanding: B.B.C. Reith lectures, 1953. O.U.P., 1954. pp.[5],127, bibliog. 10s. 6d. *(B) 3*

SINGER, C., *and others, eds.*

A history of technology; ed. by C. Singer, E. J. Holmyard and A. R. Hall, assisted by E. Jaffé, R. H. G. Thomson and J. M. Donaldson. Vol. 1: From early times to fall of ancient empires. Oxford, Clarendon P., 1954. pp.lxiv,827, front., illus., plates, maps, diagrs., bibliog. 147s. *(B) 4*

DOCUMENTATION

LINTON, C. D.

How to write reports. New York, Harper, 1954. pp.x,240, diagrs. $3. *(B) 5*

BIBLIOGRAPHY

BLACKWELL, A. M.

Lists of researches in education and educational psychology, supplement I: presented for higher degrees in the universities of the United Kingdom and the Irish Republic in the years 1952 and 1953, classified according to a modification of the Dewey Decimal System. Newnes, 1954. pp.57. *Publications of the National Foundation for Educational Research in England and Wales, no. 7.* *(D) 6*

INTERNATIONAL POLITICAL SCIENCE ASSOCIATION, *and* **INTERNATIONAL COMMITTEE FOR SOCIAL SCIENCES DOCUMENTATION**

International bibliography of political science; ed. by J. Meynaud. Vol. 1, 1953 (works published in 1952). Paris, Unesco; [London, H.M.S.O.], 1954. 17s. 6d., $3 or 850 fr. *(D) 7*

UNITED STATES. Library of Congress. Science Division

Scientific and technical serial publications, Soviet Union 1945–1953; prepared under the sponsorship of the National Science Foundation. Washington, the Library, 1954. pp.viii,118. 60¢. *(D) 8*

[See also *44* and *68*]

LIBRARIANSHIP

CHICAGO. University. Graduate Library School

International aspects of librarianship: papers presented before the eighteenth annual conference; ed. by L. Carnovsky. Chicago, University of Chicago P.; [London, C.U.P.], 1954. pp.vii,124. $4 or 30s. *(B) 9*

LIBRARY ASSOCIATION

Proceedings, papers and summaries of discussions at the Hastings conference, 28th September to 1st October, 1954. The Association, 1954. pp.101. 3s. 6d. *(B) 10*

LONDON. National Film Library

Rules for use in the cataloguing department. 3rd rev. ed. London, British Film Institute, 1954. pp.vii,40, tables, diagrs. 5s. *(D) 11*

LONDON. University. School of Librarianship and Archives

Cataloguing principles and practice: an enquiry; lectures delivered at a vacation course in March 1953; ed. with an introduction by M. Piggott. Library Association, 1954. pp.viii,159. 14s. (10s. 6d. to members). *(B) 12*

DIRECTORIES AND YEARBOOKS

The **DIRECTORY** of modern secondary schools, England and Wales, 1954; including junior secondary schools, Scotland, intermediate schools, Northern Ireland and local education authorities. School Government Publishing Co., 1954. pp.186. 10s. 6d. *(D) 13*

FEDERATION OF BRITISH INDUSTRIES

FBI Register of British manufacturers, 1955. 27th ed. Kelly's Directories and Iliffe for the Federation. pp.1089, illus. 42s. *(D) 14*

INDIA and Pakistan wool, hosiery and fabrics, 1955: an annual review of the wool, worsted, carpet and hosiery trades and industries in India and Pakistan, covering raw wool production, classification, marketing, import and export, yarn production, knitting and manufacturing, processing, distribution and marketing. 6th ed. Oldham, Worrall, 1954. pp.331, illus., tables. 33s. *(D) 15*

PAKISTAN labour year book, 1954. 3rd ed. Karachi, Pakistan Labour Publications; London, Humanitas Books, 1954. pp.viii,544, tables. Rs.25, or 58s. *(D) 16*

[See also *61*, *66* and *77*]

PHILOSOPHY

[See *27*]

SOCIAL SCIENCES

NATIONAL INSTITUTE FOR ECONOMIC AND SOCIAL RESEARCH, London

Register of research in the social sciences in progress and in plan, no. 11, 1953–1954; with a directory of research institutions; ed. by F. Stone. C.U.P. for the Institute, 1954. pp.vii,168. 25s. *(D) 17*

ECONOMICS

COURT, W. H. B.
A concise economic history of Britain from 1750 to recent times. Cambridge, C.U.P., 1954. pp.viii,268, bibliog. 21s. (*B*) *18*

'ECONOMIST'
The 'Economist' guide to weights and measures. The 'Economist', 1954. pp.84, tables. 10s. 6d. (*D*) *19*

EDEY, H. C., *and* **PEACOCK, A. T.**
National income and social accounting. Hutchinson, 1954. pp.x,211, tables, bibliog. 8s. 6d. *Hutchinson's university library, economics series, ed. by R. F. Harrod.* (*B*) *20*

McLEAN, J. G., *and* **HAIGH, R. W.**
The growth of integrated oil companies. Boston, Harvard University P.; London, Bailey & Swinfen, 1954. pp.xxiv,728, illus. $12 or 96s. (*C*) *21*

EDUCATION

SKINNER, D.
Rich reward: the experiences of a crammer. Rockliff, 1954. pp.ix,108. 9s. 6d. (*A*) *22*

[See also *6* and *13*]

DICTIONARIES

DE VRIES, L., *ed.*
English-German technical and engineering dictionary. New York, London, McG.-H., 1954. pp.xv,997. 140s. (*D*) *23*

MATHEMATICS

LAWDEN, D. F.
Mathematics of engineering systems (linear and non-linear). Methuen, 1954. pp.viii,380, tables, diagrs. 30s. (*C*) *24*

ASTRONOMY

MOORE, P.
Suns, myths and men. Muller, 1954. pp.192, illus. 12s. 6d. 'A book on astronomy written in a simple and pleasing manner for the general reader.' (*A*) *25*

NAVIGATION

COLLINDER, P.
A history of marine navigation; trans. from the Swedish by M. Michael. Batsford, 1954. pp.195, front., illus., plates, diagrs., bibliog. 21s. (*A*) *26*

PHYSICS

DINGLE, H.
The sources of Eddington's philosophy. Cambridge, C.U.P., 1954. pp.vi,64. 3s. 5d. *Arthur Stanley Eddington memorial lectures series, no. 8.* (*A*) *27*

WEBER, E.
Linear transient analysis: vol. 1, Lumped-parameter, two-terminal networks. New York, Wiley; London, C. & H., 1954. pp.xiv,348, illus., diagrs. $7.50 or 60s. (*B*) *28*

CHEMISTRY

BERRY, A. J.

From classical to modern chemistry. Cambridge, C.U.P., 1954. pp.xii,251, bibliog. 25s. *(B) 29*

PRIGOGINE, I., *and* **DEFAY, R.**

Chemical thermodynamics; trans. and rev. in conjunction with the authors by D. H. Everett. L.G., 1954. pp.xxxii,543, tables, diagrs., bibliog. 63s. *(C) 30*

ROBERTSON, A. J. B.

Mass spectrometry. Methuen, 1954. pp.[9],135, plates, diagrs., table, bibliog. 8s. 6d. *Methuen's monographs on chemical subjects, gen. eds. H. J. Emeleus and D. W. Style.* 'A clear and concise introduction to the subject of mass spectrometry.' *(B) 31*

SPRINGALL, H. D.

The structural chemistry of proteins. Butterworth, 1954. pp.x,376, illus., tables, diagrs., bibliog. 45s. 'A useful, concise review of the present state of knowledge on structural protein chemistry.' *(C) 32*

GEOLOGY

LEVORSEN, A. I.

Geology of petroleum. San Francisco, W. H. Freeman; London, Bailey & Swinfen, 1954; pp.x,703, illus., tables, diagrs., bibliog. $8.00 or 68s. *Series of geology texts ed. by J. Gilluly and A. O. Woodford.* 'An important aid to the geologist specializing in oil and gas exploration.' *(B) 33*

METEOROLOGY

TREWARTHA, G. T.

An introduction to climate. 3rd ed. New York, London, McG.-H., 1954. pp.vii,402, front., plates, illus., tables, diagrs., bibliog. 50s. or $7. *McGraw-Hill series in geography.* *(B/C) 34*

BIOLOGY

INSTITUTE OF BIOLOGY

Biology of deserts: Proceedings of a symposium on the biology of hot and cold deserts; ed. by J. L. Cloudsley-Thompson. The Institute, 1954. pp.iv,224, illus., diagrs. 14s. *(C) 35*

ARCHAEOLOGY

[See *82*]

BIOCHEMISTRY

LAIDLER, K. J.

Introduction to the chemistry of enzymes. New York, London, McG.-H., 1954. pp.ix, 208, tables, diagrs., bibliog. 36s. or $5. 'A good introductory textbook of the subject in which the subject matter is lucidly presented.' *(B)* 36

BOTANY

[See *85*]

ZOOLOGY

DELACOUR, J.

The waterfowl of the world; with sixteen plates in colour by P. Scott, and thirty-three distribution maps. Vol. 1: The magpie goose, whistling ducks, swans and geese, sheldgeese and shelducks. Country Life, 1954. pp. 284, front., plates, maps. 105s. *(A) 37*

ROMER, A. S.
Man and the vertebrates. 3rd ed. Harmondsworth, Penguin Books, 1954. 2 v. plates, illus., tables. 7s. *Pelican book series.* *(B) 38*

SCOTT, W. B.
Freshwater fishes of Eastern Canada, by W. B. Scott; photographs by W. H. Carrick: Toronto, Toronto University P.; London, Oxford University P., 1954. pp.xiv,128, illus., table, bibliog. 20s. or $2.50. *(A) 39*

WHITTELL, H. M.
The literature of Australian birds: a history and a bibliography of Australian ornithology. Perth, Paterson Brokensha, 1954. pp.xi,788, illus. 70s. *(D) 40*

WIGGLESWORTH, V. B.
The physiology of insect metamorphosis. Cambridge, C.U.P., 1954. pp.viii, 152, illus., diagrs. 12s. 6d. *Cambridge monographs in experimental biology, no. 1.* *(C) 41*

PUBLIC HEALTH

BRITISH MUSEUM (NATURAL HISTORY), London
The house-fly as a danger to health: its life history and how to deal with it. 6th ed. British Museum (Natural History), 1954. pp.17, illus. 9d. *British Museum (Natural History), London. Economic series, no.* 1. *(A) 42*

DAVIES, C. N.
Dust is dangerous. Faber & Faber, 1954. pp.xvii,116, front., illus., diagrs., tables, bibliog. 21s. *(B) 43*

HEALTH INFORMATION FOUNDATION
An inventory of social and economic research in health; comp. by F. J. Strunk. 3rd ed. New York, the Foundation, [1954]. pp.180. *(D) 44*

PHARMACY

BRITISH pharmaceutical codex, 1954. Pharmaceutical P., for Council of the Pharmaceutical Society of Great Britain, 1954. pp.xxxii,1340, tabls, diagrs. 63s. *(D) 45*

ENGINEERING

PARSONS, S. A. J.
Production tooling equipment: the design of jigs, tools and gauges. Cleaver-Hume P., 1954. pp.xi,324, illus., tables, diagrs. 25s. 'Does much to fill gap in textbooks for jig and tool designers.' *(C) 46*

[See also *24*]

Testing Materials

BRITISH IRON AND STEEL RESEARCH ASSOCIATION
Fatigue tests on rolled alloy steels made in electric and open hearth furnaces; by P. H. Frith. British Iron & Steel Institute for the Association, 1954. pp.130, plates. 15s. *Special report series, no. 50.* *(C) 47*

OSGOOD, W. R., *ed.*
Residual stresses in metals and metal construction. New York, Reinhold; London, C. & H., 1954. pp.363. 60s. or $10. *(C) 48*

STEAM

HODGSON, J. T., *and* **LAKE, C. S.**

Locomotive management: cleaning, driving, maintenance. 10th ed. rev. by W. R. Oaten. Tothill P., 1954. pp.xii,512, illus., tables, diagrs. 12s. 6d. 'Previous ed. 1948.' *(B) 49*

ELECTRICAL

BENSON, F. A.

Electrical engineering problems with solutions. Spon, 1954. pp.viii,232, tables, diagrs. 25s. *(B) 50*

MOLLOY, E., *ed.*

Electric wiring (domestic). 5th ed. Newnes, 1954. pp.viii,268, illus., tables, diagrs. 8s. 6d. *(B) 51*

INTERNAL COMBUSTION

BROWNING, B. E.

The Villiers engine for industrial, agricultural and horticultural use: a practical guide to maintenance and overhaul. C. A. Pearson, 1954. pp.viii,148, illus., tables, diagrs. 6s. *(B) 52*

WORKSHOP PRACTICE

SPAREY, L. H.

The amateur's lathe; with a foreword by D. A. Russell. Newnes, 1954. pp.224, front., illus., tables, diagrs. 15s. *(B) 53*

CIVIL

WOOLTORTON, F. L. D.

Scientific basis of road design. E. Arnold, 1954. pp.364, illus. 60s. *(C) 54*

SANITARY

[See *78*]

AUTOMOBILE

CLUTTON, C., *and* **STANFORD, J.**

The vintage motor car. Batsford, 1954. pp.240, front., illus. 25s. *(A) 55*

AERONAUTICAL

TEMPLETON, H.

Massbalancing of aircraft control surfaces. C. & H., 1954. pp.x,241, illus., tables, diagrs., bibliog. 35s. *Series of aeronautical monographs published under authority of the Royal Aeronautical Society, vol. 4.* *(C) 56*

AGRICULTURE

HAINSWORTH, P. H.

Agriculture: a new approach. Faber, 1954. pp.248, plates, tables, bibliog. 21s. *(B) 57*

HENDERSON, F.

Making mechanized farming pay. Ipswich, Dairy Farmer, 1954. pp.214, illus., diagrs. 21s. *(B) 58*

MANNERS, E.

Land is what we make it; with a foreword by A. G. Davis. Harrap, 1954. pp.256, front., tables. 12s. 6d. *(B) 59*

FRUIT GROWING

CHAMPAGNAT, P.

The pruning of fruit trees; ed. and trans. from the French by N. B. Bagenal. C. Lockwood, 1954. pp.ix,166, illus., diagrs. 12s. 6d. *(B) 60*

ROYAL HORTICULTURAL SOCIETY

Fruit yearbook, 1955. The Society, 1954. pp.142, plates. 10s. *(D) 61*

HORTICULTURE

BARNES, A. T.
The dahlia grower's treasury. London, Collingridge; New York, Transatlantic Arts, 1954. pp.160, front., illus., tables, diagrs. 15s. or $3.75. *(B) 62*

HADFIELD, M., *ed.*
The gardener's album. Hulton P., 1954. pp.175, illus. 25s. *(B) 63*

HUBBARD, C. E.
Grasses: a guide to their structure, identification, uses, and distribution in the British Isles; with illustrations by J. Sampson. Penguin Books, 1954. pp.xii,428, illus., tables, diagrs., bibliog. 3s. 6d *(B) 64*

PARKER, E.
Surrey gardens: illustrated by W. McLaren. Batsford, 1954. pp.xii,259, illus. 18s. *(A) 65*

ROYAL HORTICULTURAL SOCIETY
Daffodil yearbook, 1955. The Society, 1954. pp.140, plates. 10s. *(D) 66*

STEPHENS, T. A.
My garden. Faber, 1954. pp.192, plates. 15s. *(B) 67*

PRINTING AND PUBLISHING

THORNTON, J. L., *and* **TULLY, R. I. J.**
Scientific books, libraries and collectors; a study of bibliography and the book trade in relation to science. London, Library Association, 1954. pp.x,288, plates, facsims. 24s. (18s. to members). *(B) 68*

TRANSPORT

DAVIES, M. R. R.
The law of road traffic: a legal guide to the provisions, principles and cases of road traffic law with special reference to the owners and drivers of motor vehicles and other road users. Shaw, 1954. pp.xlviii,348, tables. 30s. *(B) 69*

ELLIS, C. H.
British railway history: an outline from the accession of William IV to the nationalisation of railways; Vol. 1, 1830–1875: with an introduction by R. Lloyd. A. & U., 1954. pp.xvi,443, front., plates. 30s. *(B) 70*

KAY, F. G.
The Atlantic Ocean: bridge between two worlds. Museum P., 1954. pp.208, front., plates. 18s. *(A) 71*

KING, E. R., *and* **NOEL, J. V.**
Ship handling. New York, Van Nostrand; London, Macmillan, 1954. pp.xii,219, diagrs. 32s. 6d. or $4.50. *(B) 72*

INDUSTRIAL ORGANIZATION

BRITISH INSTITUTE OF MANAGEMENT
The application of modern management techniques in the smaller enterprise; with preface by F. C. Hooper. The Institute, 1954. pp.36, diagrs. 2s. 6d. *(B) 73*

'BUSINESS' directory of office equipment and appliances; a comprehensive reference book and survey for all who make, sell or use modern office machines, aids and systems. Business Publications, 1954. pp.288. 40s. *(D) 74*

FRASER, J. M.

A handbook of employment interviewing. 3rd ed. Macdonald & Evans, 1954. pp.ix,253, tables. 11s. 6d. *(B) 75*

[See also *16*]

CHEMICAL TECHNOLOGY

Glass and Ceramics

GARNER, *Sir* H. M.

Oriental blue and white. Faber, 1954. pp.xii,86, front., plates, illus., bibliog. 30s. *Monographs on pottery and porcelain series, ed. by W. B. Henry.* *(A) 76*

MANUFACTURES

[See *14*]

Textiles

WOOL year book, 1954. Manchester, London, Textile Mercury, 1954. pp.663, illus., tables, diagrs., bibliog. 12s. 6d. *(D) 77*

[See also *15*]

BUILDING

FLETCHER, *Sir* B., *and* FLETCHER, H. P.

Architectural hygiene, or sanitary science as applied to buildings. 9th ed. Pitman, 1954. pp.xi,394, illus., diagrs. bibliog. 25s. *(B) 78*

ARCHITECTURE

COOK, O., *and* SMITH, E.

English cottages and farmhouses; text by O. Cook, photographs by E. Smith. Thames & Hudson, 1954. pp.50, plates, diagrs. 42s. *(B) 79*

PENN, C. T.

Houses of today: a practical guide. Batsford, 1954. pp.184, front., illus., tables, diagrs. 30s. *(A) 80*

SIMPSON, F. M.

History of architectural development. New ed. Vol. 2: Early Christian, Byzantine and Romanesque architecture, by C. Stewart. L.G., 1954. pp.xiv, 288, illus., maps, diagrs., bibliog. 30s. *(B) 81*

PHOTOGRAPHY

COOKSON, M. B.

Photography for archaeologists: foreword by Sir M. Wheeler, gen. ed. W. J. M. Synge. Parrish, 1954. pp.123, plates, tables. 15s. *(B) 82*

PROGRESS in photography, 1951–1954: editor-in-chief, D. A. Spencer. Focal P., 1954. pp.335, illus., tables, diagrs., bibliog. 50s. *(C) 83*

Cinematography

DEWHURST, H.

Introduction to 3–D: three-dimensional photography in motion pictures, with chapters on Wide-screen, CinemaScope, Cinerama and sterio-television. C. & H., 1954. pp.xv,152, illus., plates, diagrs., bibliog. 21s. *(B) 84*

BIOGRAPHY

HERBST, J.

New green world. Weidenfeld & Nicolson, 1954. pp.xi,272, plates. 15s. *(B) 85*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List*:

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 6
Agriculture, 6
Archaeology, 4
Architecture, 8
Astronomy, 3
Automobile engineering, 6

Bibliography, 1
Biochemistry, 4
Biography, 8
Biology, 4
Botany, 4
Building, 8

Chemical technology, 8
Chemistry, 4
Cinematography, 8
Civil engineering, 6

Dictionaries, 3
Directories and yearbooks, 2
Documentation, 1

Economics, 3
Education, 3
Electrical engineering, 6
Engineering, 5

Fruit growing, 6

General science, 1
Geology, 4
Glass and ceramics, 8

Horticulture, 7

Industrial organization, 7
Internal combustion, 6

Librarianship, 2

Manufactures, 8
Mathematics, 3
Meteorology, 4

Navigation, 3

Pharmacy, 5
Philosophy, 2
Photography, 8
Physics, 3
Printing and publishing, 7
Public health, 5

Sanitary engineering, 6
Social sciences, 2
Steam engineering, 6

Testing materials, 5
Textiles, 8
Transport, 7

Workshop practice, 6

Zoology, 4

AUTHOR OR TITLE INDEX

Bagenal, N. B., *ed.*, 60
Barnes, A. T., 62
Benson, F. A., 50
Bernal, J. D., 1
Berry, A. J., 29
Blackwell, A. M., 6
British Institute of Management, 73
British Iron and Steel Research Association, 47
British Museum (Natural History), London, 42
British pharmaceutical codex, 1954, 45
Browning, B. E., 52
'Business' directory of office equipment and appliances, 74

Caruovsky, L., *ed.*, 9
Champagnat, P., 60
Chicago. University. Graduate Library School, 9
Cloudsley-Thompson, J. L., 35
Clutton, C., 55
Collinder, P., 26
Cook, O., 79
Cookson, M. B., 82
Court, W. H. B., 18

Davies, C. N., 43
Davies, M. R. R., 69
Defay, R., 30
Delacour, J., 37
De Vries, L., *ed.*, 23
Dewhurst, H., 84
Dingle, H., 27
Directory of modern secondary schools, England and Wales, 1954, 13

'Economist,' 19
Edey, H. C., 20
Ellis, C. H., 70
Emeleus, H. J., *ed.*, 31
Everett, D., *tr.*, 30

Federation of British Industries, 14
Fletcher, *Sir* B., 78
Fletcher, H. P., 78
Fraser, J. M., 75
Frith, P. H., 47

Garner, *Sir* H. M., 76
Gilluly, J., *ed.*, 33

Hadfield, M., *ed.*, 63
Hainsworth, P. H., 57
Haigh, R. W., 21
Hall, A. R., *ed.*, 4
Harrod, R. F., *ed.*, 20
Health Information Foundation, 44
Henderson, F., 58
Herbst, J., 85
Hodgson, J. T., 49
Holmyard, E. J., *ed.*, 4
Hubbard, C. E., 64

India and Pakistan wool, hosiery and fabrics, 1955, 15
International Committee for Social Sciences Documentation, 7
International Political Science Association, 7
Institute of Biology, 35

Kay, F. G., 71
King, E. R., 72

Laidler, K. J., 36
Lake, C. S., 49
Lawden, D. F., 24
Levorsen, A. I., 33
Library Association, 10
Library of Congress. Science Division, 8
Ling, W., 2
Linton, C. D., 5
London. National Film Library, 11
London. University. School of Librarianship and Archives, 12

McLean, J. G., 21
Manners, E., 59
Meynaud, J., *ed.*, 7
Michael, M., *tr.*, 26
Molloy, E., *ed.*, 51
Moore, P., 25

National Institute for Economic and Social Research, London, 17
Needham, J., 2
Noel, J. V., 72

Oaten, W. R., *ed.*, 49
Oppenheimer, J. R., 3
Osgood, W. R., *ed.*, 48

Pakistan labour year book, 1954, 16
Parker, E., 65
Parsons, S. A. J., 46
Peacock, A. T., 20
Penn, C. T., 80
Piggott, M., *ed.*, 12
Prigogine, I., 30
Progress in photography, 1951-1954, 83

Robertson, A. J. B., 31
Romer, A. S., 38
Royal Horticultural Society, 61, 66

Scott, W. B., 39
Simpson, F. M., 81
Singer, C., *ed.*, 4
Skinner, D., 22
Smith, E., 79
Sparey, L. H., 53
Spencer, D. A., *ed.*, 83
Springall, H. D., 32
Stanford, J., 55
Stephens, T. A., 67
Stewart, C., *ed.*, 81
Stone, F., *ed.*, 17
Strunk, F. J., *ed.*, 44
Style, D. W., *ed.*, 31
Synge, W. J. M., *ed.*, 82

Templeton, H., 56
Thompson, J. L. Cloudsley-, 35
Thornton, J. L., 68
Trewartha, G. T., 34
Tully, R. I. J., 68

United States. Library of Congress. Science Division, 8

Vries, L. de, 23

Weber, E., 28
Whittell, H. M., 40
Wigglesworth, V. B., 41
Woodford, A. O., *ed.*, 33
Wool year book, 1954, 77
Wooltorton, F. L. D., 54

WATERLOW & SONS LIMITED, LONDON & DUNSTABLE.

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 2
FEBRUARY 1955
Nos. 86-170

Aslib members: 12s. p.a.
Non-members: 21s. p.a.

CALCUTTA CENTRAL LIBRARY

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 20 *Number 2* *February 1955*

GENERAL SCIENCE

SHAPLEY, H., *and others, eds.*
A treasury of science. 3rd rev. ed. by H. Shapley, S. Rapport and H. Wright. London, Sydney, Angus & Robertson, 1954. pp.xii,654, diagrs. 21s. *(A) 86*

SCIENTIFIC RESEARCH

NUFFIELD FOUNDATION
Report on grants made during the ten years April 1943 to March 1953. [The Foundation], 1954. pp.319. Gratis. *(D) 87*

BIBLIOGRAPHY

BAER, E. A.
Titles in series published prior to January 1953; a handbook for librarians and students. Washington, Scarecrow P.; [London, Bailey & Swinfen] 1953 [c1954]. pp.xix,856. $16 or 144s. *(D) 88*

ENOCH PRATT FREE LIBRARY, Baltimore
Reference books; a brief guide for students and other users of the library; comp. by M. N. Barton. 3rd ed. Baltimore, the Library, 1954. pp.100, plates. $1. *(D) 89*

LONDON. University. Institute of Advanced Legal Studies
Union list of United States law literature in libraries in Oxford, Cambridge and London. The Institute, 1954. pp.ii,43. 12s. 6d. *Publication no. 3. (D) 90*

NATIONAL FOUNDATION FOR EDUCATIONAL RESEARCH IN ENGLAND AND WALES
List of researches in education and educational psychology: Supplement 1: Researches presented for higher degrees in the universities of the United Kingdom and the Irish Republic in the years 1952 and 1953: classified according to a modification of the Dewey Decimal system by A. M. Blackwell. Newnes for the Foundation, 1954. pp.57. 10s. 6d. *National Foundation for Educational Research in England and Wales. Publications series, no. 7.* *(D) 91*

UNITED STATES. Library of Congress. *Reference Department*
Research and information on Africa: continuing sources; [comp. by H. F. Conover]. Washington, the Library, 1954. pp.vii,70. ¢45. *(D) 92*

[See also *156*]

LIBRARIANSHIP

AMERICAN LIBRARY ASSOCIATION
Freedom of book selection; proceedings of the Second Conference on Intellectual Freedom, Whittier, California, June 20-21, 1953, sponsored by the Committee on Intellectual Freedom, the Book Acquisitions Committee and the Board on Acquisition of Library Materials; ed. by F. J. Mosher. Chicago, the Association, 1954. pp.ix,132. $3.50. *(B) 93*

AMERICAN library directory; a classified list of 13,857 libraries, and statistical data compiled triennially. 20th ed. New York, Bowker, 1954. pp.xiii,844. $22.50. (*D*) *94*

ASSOCIATION OF ASSISTANT LIBRARIANS
The Final Examination. Part 2: Library organization. First paper: General, and Second paper: (a) Public libraries, by F. N. Macdonald. London, the Association, 1954. pp.39. 3s. (2s. to members). *The A.A.L. guides to the Library Association examinations under the general editorship of A. J. Walford.* (*B*) *95*

DIRECTORIES AND YEARBOOKS

[See *98, 103, 159, 162, 163*]

PSYCHOLOGY

MASLOW, A. H.
Motivation and personality. New York, Harper, 1954. pp.xvi,411. $4.50. (*B*) *96*

SOCIAL SCIENCES

STATISTICS

FISHER, *Sir* R. A.
Statistical methods for research workers. 12th ed. rev. O. & B., 1954. pp.xv,356, tables, diagrs., bibliog. 16s. *Biological monographs and manuals, no. 5: gen. ed. F. A. E. Crew.* (*C*) *97*

EDUCATION

ASSOCIATION OF EDUCATION COMMITTEES OF ENGLAND, WALES AND NORTHERN IRELAND
The Education Committees yearbook. Councils and Education Press, 1954. pp.610. 25s. (*D*) *98*

BURSTON, W. H.
Social studies and the history teacher. G. Philip, for the Historical Association, 1954. pp.27. 2s. *Historical Association. Teaching of history leaflets series, no. 15.* (*B*) *99*

GREAT BRITAIN. Ministry of Education
Language: some suggestions for teachers of English and others in primary and secondary schools and in further education. H.M.S.O., 1954. pp.v,169, tables. *Pamphlets series, no. 26.* (*B*) *100*

HARRISON, J. F. C.
A history of the Working Men's College, 1854-1954. Routledge & K. Paul, 1954. pp.xix,215, front., plates, bibliog. 16s. (*A*) *101*

WINN, C.
Teaching music. O.U.P., 1954. pp.[6],95, illus. 6s. 6d. (*B*) *102*

YEAR book of education, 1954; ed. by R. King Hall, N. Hans, J. A. Lauwerys. Evans, in association with the University of London, Institute of Education and Teachers College, Columbia University, New York, 1954. pp.xiv,630, tables, bibliog. 63s. (*D*) *103*

DICTIONARIES

[See *164*]

ASTRONOMY

DE VAUCOULEURS, G.
Physics of the planet Mars: an introduction to areophysics. Faber, 1954. pp.365, plates, tables, diagrs., bibliog. 50s. 'A research tool but also of interest to the physicist in his general reading.' *(B/C) 104*

PHYSICS

OLDENBURG, O.
Introduction to atomic physics. 2nd ed. New York, London, McG.-H., 1954. pp.xiii,421, illus., tables, diagrs. $6 or 48s. *(B) 105*

CHEMISTRY

BOCKRIS, J. O'M., *ed.*
Modern aspects of electrochemistry; ed. by J. O'M. Bockris with the assistance of B. E. Conway. Butterworth, 1954. pp.x,344, tables, diagrs. 40s. *Modern aspects series of chemistry, ed. by F. C. Tompkins, no. 1.* *(C) 106*

HOLLINGSHEAD, R. G. W.
Oxine and its derivatives. Butterworth, 1954. 2 v., tables, bibliog. 84s. 'A very comprehensive and valuable survey.' *(B) 107*

HOLNESS, H.
Inorganic qualitative analysis, semi-micro methods. Pitman, 1954. pp.viii, 150, front., illus., tables, diagrs. 12s. 6d. *(B) 108*

KLYNE, W., *ed.*
Progress in stereochemistry. London, Butterworth; New York, Academic Press, 1954. pp.x,378, tables, diagrs., bibliog. 50s. or $8. *Progress series, no. 1.* 'Only book on this subject in the English language to cover the advances of the last 20 years.' *(C) 109*

PARTINGTON, J. R.
An advanced treatise on physical chemistry: Vol. 5, Molecular spectra and structure dielectrics and dipole moments. L.G., 1954. pp.x,565, tables, diagrs. 80s. 'A further instalment of a remarkable work; highly recommended.' *(C) 110*

RADIO-ISOTOPE CONFERENCE, 1954, Oxford
Proceedings of the second conference, Oxford, 19–23 July, sponsored by the Atomic Energy Research Establishment, Harwell; ed. by J. E. Johnstone, R. A. Faires, and R. J. Millett. Butterworth, 1954. 2 v., illus., tables, diagrs. 100s. Vol. 1: Medical and physiological applications, 65s. Vol. 2: Physical sciences and industrial applications, 45s. *(C) 111*

WINSOR, P. A.
Solvent properties of amphiphilic compounds. Butterworth, 1954. pp.ix,207, front., illus., diagrs., tables, bibliog. 40s. *(C) 112*

MINERALOGY AND CRYSTALLOGRAPHY

AHRENS, L. H.
Quantitative spectrochemical analysis of silicates: a scheme of quantitative D.C. arc analysis of the silicate minerals, rocks, soils and meteorites. Pergamon Press, 1954. pp.122, plates, tables, diagrs., bibliog. 25s. *(B) 113*

GEOLOGY

KIRKALDY, J. F.
General principles of geology. Hutchinson, 1954. pp.327, front., plates, tables, diagrs., bibliog. 25s. *(B) 114*

METEOROLOGY

LUDLAM, F. H. *and* **SCORER, R. S.**
Further outlook. Wingate, 1954. pp.174, plates, illus., diagrs. 15s. 'A discussion of physical processes in the atmosphere for the intelligent general reader.' *(A) 115*

BIOLOGY

ANNUAL review of microbiology: vol. 8, 1954; ed. by E. C. Clifton. Stanford, Annual Reviews Inc., 1954. pp.vi,536. $7. *(B) 116*

BOTANY

FRETS, G. P.
The heredity of the dimensions, the weight and the indices (size and form) of the seeds of Phaseolus vulgaris. The Hague, M. Nijhoff, 1954. pp.80, illus., tables. Fl. 7.60. *(C) 117*

MARSDEN-JONES, E. M., *and* **TURRILL, W. B.**
British knapweeds: a study in synthetic taxonomy. Quaritch, 1954. pp.xiii, 201, plates, illus., tables, diagrs. 27s. 6d. *Ray Society. Publications series, no. 138.* *(C) 118*

ZOOLOGY

LACK, D. L.
The natural regulation of animal numbers. Oxford, Clarendon P., 1954. pp.viii,343, front., maps, tables, diagrs., bibliog. 35s. *(C) 119*

LATIL, P. de,
The underwater naturalist; trans. from the French by E. Fitzgerald. Jarrolds, 1954. pp.275, front., plates, illus., diagr. 16s. *(A) 120*

LOCKLEY, R. M.
The seals and the curragh: introducing the natural history of the grey seal of the North Atlantic; with photographs and maps by the author, and illus. by P. and J. Mead. Dent, 1954. pp.vii,149, front., plates, illus., maps, bibliog. 15s. *(A) 121*

MARSHALL, A. J.
Bower-birds, their displays and breeding cycles: a preliminary statement. Oxford, Clarendon P., 1954. pp.x,208, front., illus., maps, diagrs., bibliog. 30s. *(A) 122*

MARSHALL, N. B.
Aspects of deep sea biology: illus. by O. Marshall. Hutchinson, 1954. pp.380, front., plates, illus., tables, diagrs. 35s. *Scientific and technical publications series.* *(A/B) 123*

SHORTEN, M. R.
Squirrels. Collins, 1954. pp.xii,212, plates, illus., maps, tables, diagrs., bibliog. 15s. *New naturalist monographs series; ed. by J. Fisher and others, no. 12.* *(A) 124*

TWEEDIE, M. W. F., *and* **HARRISON, J. L.**
Malayan animal life. L.G., 1954. pp.x,237, front., illus. 18s. *(B) 125*

ENGINEERING

TAYLOR, F. S.
Power today and tomorrow: the application of energy to human needs. Muller, 1954. pp.192, plates, illus., tables, diagrs. 15s. *(A) 126*

Automatic Control

SLUCKIN, W.
Minds and machines. Harmondsworth, Penguin Books, 1954. pp.223, diagrs., bibliog. 2s. *Pelican book.* *(B) 127*

Testing Materials

BIEZENO, C. B., *and* **GRAMMEL, R.**
Engineering dynamics. Vol. 1, Theory of elasticity, analytical and experimental methods. Trans. from the German by M. L. Meyer. London, Glasgow, Blackie, 1955. pp.xi,307, tables, diagrs. 50s. 'Contains three sections on elastomechanics, treating mainly the more difficult problems that are met in this field.' *(C) 128*

SWAINGER, K.
Analysis of deformation. Vol. 2, Experiment and applied theory. C. & H., 1954. pp.xxxvi,365, tables, diagrs., bibliog. 70s. 'Concerned with the practical aspect and intended for research engineers, and physicists. The series, when complete, will become a standard work.' *(C) 129*

Electrical

BECKETT, C. S.
Generation and transmission. 3rd ed. London, Glasgow, Blackie, 1954. pp.[10],124, illus., tables, diagrs. 8s. 6d. *Blackie's electrical engineering series.* 'A valuable introduction to more specialised textbooks.' *(B) 130*

ELECTRICITY undertakings of the world, 1954–1955; ed. by N. H. Codling. 64th ed. Benn, 1954. pp.586. 30s. *The 'Electrical Journal' Red Book.* *(D) 131*

KNIGHT, S. A.
Fundamentals of radar. 2nd ed. Pitman, 1954. pp.ix,150, diagrs. 15s. *(B) 132*

MOLLOY, E., *and* **PANNETT, W. E.,** *eds.*
Radio and televison engineers' reference book. Newnes, 1954. pp.xxxii, 1574, illus., tables, diagrs., bibliog. 70s. *(B) 133*

[See also *170*]

Electrical Communications

RIDEOUT, V. C.
Active networks. Constable, 1954. pp.xvi,485, illus., diagrs. 42s. *Electrical engineering series, ed. by W. L. Everitt.* 'Should prove invaluable for senior students in electrical communication.' *(B) 134*

Workshop Practice

INSTITUTE OF PHYSICS
Laboratory and workshop notes 1950–1952: a third selection reprinted from the Journal of Scientific Instruments: comp. and ed. by R. Lang. E. Arnold, 1954. pp.xii,280, illus., tables, diagrs. 30s. *(B) 135.*

NAVAL

LORD, L.
Naval architecture of planing hulls. 2nd rev. ed. Cambridge, Maryland, Cornell Maritime Press, 1954. pp.319, illus., diagrs. $6. *(C) 136*

MACKROW, C.
Naval architect's and shipbuilder's pocket book: formulae, rules and tables for marine engineers and surveyors. 15th ed. rev. by L. Woollard. Technical P., 1954. pp.xii,714, tables, diagrs. 56s. 'Previous ed. 1942.' *(B) 137*

HYDRAULIC

McNEIL, I.
Hydraulic operation and control of machines. Thames & Hudson, 1954. pp.xii,324, plates, illus., tables, diagrs., biblicg. 35s. 'A useful survey of the subject with a deliberate leaning to the practical aspects.' *(B) 138*

AUTOMOBILE

CAMPBELL, C.
The sports car: its design and performance. C. & H., 1954. pp.xiii,262, front., plates, illus., tables, diagrs. 30s. 'An outstanding book dealing thoroughly with the modern sports car.' *(A/B) 139*

[See also *169*]

AERONAUTICAL

DESOUTTER, D. M.
All about aircraft. Faber, 1954. pp.ix,474, front., illus., tables, diagrs. 25s. *(A) 140*

GREEN, D. W., *and* **POLLINGER, G.,** *comps.*
The observer's book of aircraft; with a foreword by P. G. Masefield. 3rd ed. Warne, 1954. pp.287, illus., diagrs. 5s. *Observer's pocket book series. (A) 141*

JANE'S all the world's aircraft, 1954–1955; comp. and ed. by L. Bridgman. Jane's All the World's Aircraft, [Sampson, Low, Marston], 1954. pp.xxx, 379, illus., tables, diagrs. 84s. *(D) 142*

LITHGOW, M.
Mach one; with a foreword by C. Gardner. Wingate, 1954. pp.xiv, 151, front., plates. 12s. 6d. *(A) 143*

AGRICULTURE

COMMONWEALTH AGRICULTURAL BUREAUX. Executive Council
List of research workers, agriculture, animal health and forestry in the British Commonwealth, 1953, (including the list of such workers in the Anglo-Egyptian Sudan and the republic of Ireland). Farnham Royal, Bucks., the Bureaux, 1954. pp.iii,474. 15s. *(D) 144*

PESTS

McCUBBIN, W. A.
The plant quarantine problem: a general review of the biological, legal, administrative and public relations of plant quarantines with special reference to the United States situation. Copenhagen, E. Munksgaard, 1954. pp.255, illus. Kr. 32, $4.80 or 33s. 9d. *(B) 145*

CROPS

STUBBS, J. R.
Forage farming. Ipswich, Dairy Farmer, 1954. pp.135, plates, illus., tables, diagrs. 15s. *(B) 146*

HORTICULTURE

HEATH, R. E.
Shrubs for the rock garden and Alpine house; with a foreword by C. Mackenzie. Collingridge, 1954. pp.192, plates, illus. 42s. *(B) 147*

DAIRYING

FELTWELL, R.
Deep litter for egg production. Faber, 1954. pp.86, plates, illus., tables. 6s. 6d. *(A) 148*

TRANSPORT

DRION, H.
Limitation of liabilities in international air law. The Hague, M. Nijhoff. pp.389. Fl. 24.50. *(C) 149*

MITCHELL, R. B., *and* RAPKIN, C.
Urban traffic: a function of land use; with a foreword by E. M. Fisher. New York, Columbia University P., 1954. pp.226, diagrs. $5. *(A) 150*

INDUSTRIAL ORGANIZATION

CAMPBELL, W.
Modern business and its methods: a manual of business organization, management and office procedure for commercial students and business men. Part 2. Rev. ed. Pitman, 1954. pp.xv,221–467, illus., tables. 10s. 6d. *(B) 151*

FEDERATION OF BRITISH INDUSTRIES
Industry and the graduate. The Federation, 1954. pp.[4],31, tables. 2s. *FBI handbook.* *(B) 152*

MITCHELL, K. B.
Cost accounting and the engineer. Iliffe, for *Machine Shop Magazine*, 1954. pp.126, tables, diagrs. 10s. 6d. *(B) 153*

SWEDISH EMPLOYERS' CONFEDERATION
Perspective of labour conditions in Sweden; ed. by M. G. Paleologue. Stockholm, Nordisk Rotogravyr, 1954. pp.55, illus., tables. 4.50 kr. *(B) 154*

CHEMICAL TECHNOLOGY

McADAMS, W. H.
Heat transmission. 3rd ed. New York, London, McG.-H., 1954. pp.xiv,532, bibliog. $8.50 or 61s. *McGraw-Hill series in chemical engineering, ed. by S. D. Kirkpatrick.* *(B) 155*

THORP, C. E.
Bibliography of ozone technology. Vol. 1: Analytical procedures and patent index. Chicago, Armour Research Foundation of Illinois Institute of Technology, 1954. pp.209. $5.25. *(D) 156*

FUEL

INSTITUTE OF PETROLEUM
Marketing safety code. The Institute, 1954. pp.xi,59. 12s. 6d. looseleaf, or 26s. in binder. *(B) 157*

INSTITUTE OF PETROLEUM
Modern petroleum technology. 2nd ed. The Institute, 1954. pp.viii,702, illus., diagrs. 35s. *(B) 158*

WORLD petroleum statistical yearbook: vol. 1, 1953–1954; ed. by H. J. Struth. New York, Palmer Publications; London, World Petroleum, 1954. 140s. or $20. *(D) 159*

FOOD

PARKER, M. E., *and others*
Elements of food engineering; by M. E. Parker, with collaboration of E. H. Harvey and the late E. S. Stateler. New York, Reinhold; [London, C. & H.], 1954. 2 v., front., illus., tables, diagrs. $15.25 or 117s. *(C) 160*

OILS AND FATS

ANDERSON, A. J. C.
Margarine. Pergamon P., 1954. pp.viii,327, illus., tables, diagrs., bibliog. 63s. 'A valuable addition to the literature on the chemistry and technology of margarine.' *(C) 161*

MANUFACTURES

METALS

DIRECTORY of welding and fabricating equipment: Section 1, Metal arc welding electrodes. L. Cassier, for *Welding and Metal Fabrication*, 1954. pp.35, tables. 3s. 6d. *(D) 162*

STATISTICAL year book, 1954; tin, tinplate, canning. The Hague, International Tin Study Group, 1954. pp.260. 55s. (price includes Statistical Supplement, 1955, when published.) *(D) 163*

TEXTILES

LINTON, G. E.
The modern textile dictionary. New York, Duell, Sloane and Pearce; Boston, Little, Brown, 1954. pp.xxii,772, plates, illus. $12.50. *(D) 164*

BUILDING

AMBROSE, E.
Know your house. Thames & Hudson, 1954. pp.264, plates, illus., tables, diagrs., bibliog. 15s. *(A) 165*

ARCHITECTURE

GIBSON, J. E., *and* **COOPER, D. W.**
The design of cylindrical shell roofs. Spon, 1954. pp.xiii,186, plates, tables, diagrs. 35s. *Spon's civil engineering series, ed. by W. Fisher Cassie.* *(C) 166*

DRAWING

ENGINEERING

ABBOTT, W.
Machine drawing and design: a textbook of intermediate standard for engineering students. 6th ed. London, Glasgow, Blackie, 1954. pp.253, tables, diagrs. 15s. *(B) 167*

PHOTOGRAPHY

BOMBACK, R. H.
Basic Leica technique. Fountain P., 1954. pp.254, illus., tables, diagrs. 19s. 6d. *(A) 168*

BIOGRAPHY

GREGOIRE, J. A.
Best wheel forward. Trans. from the French by C. Meisl. Thames & Hudson, 1954. pp.194, plates. 15s. *(A) 169*

MACGREGOR-MORRIS, J. T.
The inventor of the valve: a biography of Sir Ambrose Fleming; with a foreword by E. W. Marchant. The Television Society, 1954. pp.141, front., illus., facsims. 10s. *(A) 170*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 14
Agriculture, 14
Architecture, 16
Astronomy, 11
Automatic control, 13
Automobile, 14

Bibliography, 9
Biography, 16
Biology, 12
Botany, 12
Building, 16

Chemical technology, 15
Chemistry, 11
Crops, 14

Dairying, 15
Dictionaries, 11
Directories and yearbooks, 10
Drawing, 16

Education, 10
Electrical communications, 13
Electrical engineering, 13
Engineering, 13
Engineering drawing, 16

Food, 16
Fuel, 15

General science, 9
Geology, 12

Horticulture, 15
Hydraulic engineering, 14

Industrial organization, 15

Librarianship, 9

Manufactures, 16
Metals, 16
Meteorology, 12
Mineralogy and crystallography, 11

Naval engineering, 14

Oils and fats, 16

Pests, 14
Photography, 16
Physics, 11
Psychology, 10

Scientific research, 9
Social sciences, 10
Statistics, 10

Testing materials, 13
Textiles, 15
Transport, 15

Workshop practice, 13

Zoology, 12

Erratum : Vol. 19, no. 11, item 858 is not supplied gratis, but at cost price of $2.

AUTHOR OR TITLE INDEX

Abbot, W., 167
Ahrens, L. H., 113
Ambrose, E., 165
American Library Association, 93
American library directory, 94
Anderson, A. J. C., 161
Annual review of microbiology: vol. 8, 1954, 116
Association of Assistant Librarians, 95
Association of Education Committees of England, Wales and Northern Ireland, 98
Baer, E. A., 88
Barton, M. N., *comp.*, 89
Beckett, C. S., 130
Biezeno, C. B., 128
Blackwell, A. M., *ed.*, 91
Board on Acquisition of Library Materials, 93
Bockris, J. O'M., *ed.*, 106
Bomback, R. H., 168
Book Acquisitions Committee, 93
Bridgman, L., *ed.*, 142
Burston, W. H., 99
Campbell, C., 139
Campbell, W., 151
Cassie, W. Fisher, *ed.*, 166
Clifton, E. C., *ed.*, 116
Codling, N. H., *ed.*, 131
Committee on Intellectual Freedom, 93
Commonwealth Agricultural Bureaux. Executive Council, 144
Conover, H. F., *comp.*, 92
Conway, B. E., *ed.*, 106
Cooper, D. W., 166
Crew, F. A. E., *ed.*, 97
De Latil, P., 120
Desoutter, D. M., 140
De Vaucouleurs, G., 104
Directory of welding and fabricating equipment; Section 1, 162
Drion, H., 149
Electricity undertakings of the world, 1954–1955, 131
Enoch Pratt Free Library, Baltimore, 89
Everitt, W. L., *ed.*, 134
Faires, R. A., *ed.*, 111
Federation of British Industries, 152
Feltwell, R., 148
Fisher, J., *ed.*, 124
Fisher, *Sir* R. A., 97
Fitzgerald, E., *trans.*, 120
Frets, G. P., 117
Gibson, J. E., 166
Grammel, R., 128
Great Britain. Ministry of Education, 100
Green, D. W., *comp.*, 141
Gregoire, J. A., 169
Hall, R. King, *ed.*, 103
Hans, N., *ed.*, 103
Harrison, J. F. C., 101
Harrison, J. L., 125
Harvey, E. H., 160
Heath, R. E., 147
Hollingshead, R. G. W., 107
Holness, H., 108
Institute of Advanced Legal Studies, 90
Institute of Petroleum, 157, 158
Institute of Physics, 135
Jane's all the world's aircraft, 1954–1955, 142
Johnstone, J. E., *ed.*, 111
Jones, E. M. Marsden-, 118
Kirkaldy, J. F., 114
Kirkpatrick, S. D., *ed.*, 155
Klyne, W., *ed.*, 109
Knight, S. A., 132
Lack, D. L., 119
Lang, R., *ed.*, 135
Latil, E. de, 120
Lauwerys, J. A., *ed.*, 103
Library of Congress. Reference Department, 92
Linton, G. E., 164
Lithgow, M., 143
Lockley, R. M., 121
London University. Institute of Advanced Legal Studies, 90
Lord, L., 136
Ludlam, F. H., 115
McAdams, W. H., 155
McCubbin, W. A., 145
Macdonald, F. N., 95
Macgregor-Morris, J. T., 170
Mackrow, C., 137
McNeil, I., 138
Marsden-Jones, E. M., 118
Marshall, A. J., 122
Marshall, N. B., 123
Maslow, A. H., 96
Meisl, O., *trans.*, 169
Meyer, M. L., *trans.*, 128
Millett, R. J., *ed.*, 111
Ministry of Education, 100
Mitchell, K. B., 153
Mitchell, R. B., 150
Molloy, E., *ed.*, 133
Morris, J. T. Macgregor-, 170
Mosher, F. J., *ed.*, 93
National Foundation for Educational Research in England and Wales, 91
Nuffield Foundation, 87
Oldenburg, O., 105
Paleologue, M. G., *ed.*, 154
Pannett, W. E., *ed.*, 133
Parker, M. E., 160
Partington, J. R., 110
Pollinger, G., *comp.*, 141
Radio-Isotope Conference, 1954, Oxford, 111
Rapkin, C., 150
Rapport, S., *ed.*, 86
Rideou, V. C., 134
Scorer, R. S., 115
Shapley, H., *ed.*, 86
Shorter, M. R., 124
Sluckin, W., 127
Stateler, E. S., 160
Statistical year book, 1954, 163
Struth, H. J., *ed.*, 159
Stubbs, J. R., 146
Swainger, K., 129
Swedish Employers' Federation, 154
Taylor, F. S., 126
Thorp, C. E., 156
Tompkins, F. C., *ed.*, 106
Turrill, W. B., 118
Tweedie, M. W. F., 125
United Kingdom Atomic Energy Commission, A.E.R.E., Harwell, 111
United States. Library of Congress. Reference Department, 92
Vaucouleurs, G. De, 104
Walford, A. J., *ed.*, 95
Winn, C., 102
Winsor, P. A., 112
Woolland, L., *ed.*, 137
World petroleum statistical yearbook: vol. 1, 1953–1954, 159
Wright, H., *ed.*, 86
Year book of education, 1954, 103

WATERLOW & SONS LIMITED, LONDON & DUNSTABLE.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 3
MARCH 1955
Nos. 171-255

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 20 *Number 3* *March 1955*

DOCUMENTATION

SPIKER, S.

Indexing your book; a practical guide for authors. Madison, University of Wisconsin P., 1954. pp.xi,28. 50c. *(B) 171*

BIBLIOGRAPHY

BLAND, D.

A bibliography of book illustration. C.U.P. for National Book League, 1955. pp. 16, 3s. *The book, no. 4.* *(D) 172*

BRITISH INSTITUTION OF RADIO ENGINEERS

Abstracts of papers which have appeared in the *Journal of the British Institution of Radio Engineers* over the past 15 years. The Institution, 1954. pp.48. *(D) 173*

HENDERSON, G. P.

Current British directories, 1955: a comprehensive guide to the local, trade and professional directories of the British Isles. London, Jones & Evans' Bookshop, 1955. pp.x,240. 25s. (Typewriter script.) *(D) 174*

JOINT UNIVERSITY COUNCIL FOR SOCIAL STUDIES AND PUBLIC ADMINISTRATION

Bibliography of social work and administration: a classified list of articles from selected British periodicals 1930–1952; comp. by F. M. Birkett. The Council, 1954. pp.ix,117, mimeographed. 40s. *(D) 175*

MAURIN, R.

A survey of Soviet literature in library science, 1948–1952. Washington, Catholic University of America, 1954. pp.ix,149. $3. (Dissertation submitted in partial fulfilment of the requirements for the degree of Master of Science in Library Science.) *(B) 176*

LIBRARIANSHIP

CHICAGO. University. *Graduate Library School.*

The communication of specialized information: papers presented before the Seventeenth Annual Conference, August 11–15, 1952; ed. by M. E. Egan. Chicago, American Library Association, 1954. pp.v,128. $4. 'Reprinted from 'American Documentation', vol. 4, nos. 3 and 4, 1953.' *(B) 177*

IRELAND, N. O.

The pamphlet file in school, college and public libraries. Rev. and enlarged ed. Boston, Faxon; [London, Bailey & Swinfen], 1954. pp.xi,220. 40s. or $4.50. *Useful reference series, no. 84.* *(B) 178*

[See also *176*]

DIRECTORIES AND YEARBOOKS

UNION OF INTERNATIONAL ASSOCIATIONS

Yearbook of international associations, 1954–55. 5th year. Brussels, the Union, 1954. pp.1187. 70s. or $10. *(D) 179*

[See also *187, 202, 240*]

PSYCHOLOGY

LEWIS, H.

Deprived children: the Mersham experiments, a social and clinical study; with a foreword by Sir A. Ellis and Dr. C. P. Blacker. London, New York, [etc.], O.U.P., for The Nuffield Foundation, 1954. pp.ix,163, tables. 9s. 6d. *(A) 180*

SOCIAL SCIENCES

ECONOMICS

HILTON, W. S.

Building by direct labour: a national survey. Amalgamated Union of Building Trade Workers, 1954. pp.191. 10s. 6d. *(B) 181*

JEFFERYS, J. B.

Retail trading in Britain, 1850–1950: a study of trends in retailing with special reference to the development of co-operative, multiple shop and department store methods of trading. Cambridge, C.U.P., 1954. pp.xvii,487, plates, tables, diagrs., bibliog. 50s. *National Institute of Economic and Social Research. Economic and social studies series—no. 13.* *(C) 182*

LEE, W. A.

Thirty years in coal, 1917–1947: a review of the coal mining industry under private enterprise. Mining Association of Great Britain, 1954. pp.256, tables. 16s. *(B) 183*

[See also *220*]

EDUCATION

BROGAN, C.

The educational revolution. Muller, 1955. pp.192. 10s. 6d. *(A) 184*

GREAT BRITAIN. Ministry of Education

Early leaving: a report of the Central Advisory Council for Education (England). H.M.S.O., 1954. pp.viii,99, tables. 3s. 6d. *(C) 185*

PEDLEY, R.

Comprehensive schools today: an interim survey; with new critical essays. Council & Education P., 1955. pp.[5],56, bibliog. 3s. 6d. *(A) 186*

PUBLIC and preparatory schools year book: the official book of reference of the Headmasters' Conference and of the Association of Preparatory Schools. 1954–55; ed. by J. F. Burnet and L. W. Taylor. Black, 1954. pp.xxxiv, 1017, tables. 18s. *(D) 187*

MATHEMATICS

HARDY, G. H., *and* **WRIGHT, E. M.**

An introduction to the theory of numbers. 3rd ed. Oxford, O.U.P., 1955. pp.xvi,419, tables, diagrs. 42s. *(B) 188*

JAMES, E. J.

Modern school mathematics: Book 1. O.U.P., 1954 [i.e. 1955]. pp.132, illus., map, tables, diagrs. 5s. *(B) 189*

ASTRONOMY

PAYNE-GAPOSCHKIN, C.

Variable stars and galactic structure. Athlone P., 1954. pp.xii,116, illus., tables, diagrs., bibliog. 18s. *(C) 190*

GEODESY

KNIGHT, B. H.

Surveying and levelling for students. Contractors' Record, 1954. pp.152, plates tables, diagrs. 18s. 'A good introduction to the subject.' *(B) 191*

PHYSICS

ASHURST, W. *and* **HORNBY, H.**

Calculations in physics. J. Murray, 1955. pp.vi,211, diagrs. 10s. 6d. *(B) 192*

INSTITUTE OF PHYSICS

Luminescence, with particular reference to inorganic phosphors: a symposium held by the Electronics Group of the Institute of Physics at the Cavendish Laboratory, Cambridge, from 7th to 10th April, 1954. Institute of Physics, 1955. pp.iv.119, illus., tables, diagrs., bibliog. 25s. *British Journal of Applied Physics; Supplement no. 4.* *(C) 193*

SAY, M. G., *ed.*

Magnetic alloys and ferrites. Newnes, 1955. pp.vii,200, illus., tables, diagrs., bibliog. 21s. *Electrical engineering progress series.* 'Provides important information on the properties and limitations of new magnetic materials.' *(B) 194*

CHEMISTRY

MEE, A. J.

Physical chemistry. 5th ed. rev. in collaboration with D. M. S. Wheeler. Heinemann, 1955. pp.xviii,726, plates, illus., tables, diagrs., bibliog. 25s. 'Has been brought up-to-date, and should continue to be one of the most popular introductions to the subject.' *(B) 195*

BIOLOGY

WAKSMAN, S. A., *ed.*

Perspectives and horizons in microbiology: a symposium. New Brunswick, N. J., Rutgers University P., 1955. pp.220, illus. $3.50. *(C) 196*

BIOCHEMISTRY

INGRAM, M.

An introduction to the biology of yeasts. Pitman, 1955. pp.xiii,273, plates, tables, diagrs., bibliog. 25s. *(B) 197*

LOVERN, J. A.

The chemistry of lipids of biochemical significance. Methuen, 1954. pp.xiii, 132, diagrs., refs. 8s. 6d. *Methuen's monographs on biochemical subjects, ed. by Sir R. Peters and F. G. Young.* *(B) 198*

ZOOLOGY

MORLEY, D. W.

The evolution of an insect society. A. & U., 1954. pp.216, front., plates, tables, diagrs. 18s. *(A) 199*

PUBLIC HEALTH

BRITISH ENGINE BOILER & ELECTRICAL INSURANCE CO. LTD. Manchester

Technical report: New series, vol. 2. Manchester, British Engine Boiler & Electrical Insurance Co. Ltd., 1955. pp.255, illus., tables, diagrs., bibliog. 12s. 6d. 'Maintains high standard of pre-war series, and contributes to the advancement of good design.' *(C) 200*

MACFARLANE, D. I.

Safety in industry; an introduction to the protection of personnel. Iliffe, for 'Machine Shop Magazine', 1955. pp.71, illus., tables, diagrs. 7s. 6d. *(B) 201*

ENGINEERING

KEMPE'S engineers' year-book for 1955. 60th ed. Ed. by C. E. Prockter under direction of B. W. Pendred. Morgan, 1955. 2 v., illus., tables, diagrs. 75s. *(D) 202*

MECHANICAL

RYDER, G. H.

Theory of machines through worked examples. Cleaver-Hume, 1955. pp.viii,243, tables, diagrs. 18s. 6d. 'An excellent supplement to a general textbook on the theory of machines.' *(B) 203*

ELECTRICAL

ATKINSON, A. D. S.

Modern fluorescent lighting: dealing with the principles and practice of fluorescent lighting, for electrical engineers, illuminating engineers and architects. 2nd ed. Newnes, 1955. pp.159, illus., tables, diagrs. 15s. *(B) 204*

BETTRIDGE, B. R. A.

Transistors and crystal diodes: what they are and how to use them. Price, 1954. pp.x,61, illus., tables, diagrs. 5s. *(B) 205*

DE VILLE, E.

Electricity. Harmondsworth, Penguin Books, 1955. pp.159, plates, illus., diagrs. 2s. 6d. *(A) 206*

IBBETSON, W. S.

Electric wiring: theory and practice for practical wiremen, engineers and students. 9th ed. General ed., C. R. Urwin; eds., W. F. Parker and F. G. Thompson. Spon, 1954. pp.viii, 296, plates, tables, diagrs. 11s. 6d. 'Clearly written and practical in approach.' *(B) 207*

KRUGMAN, L. M.

Fundamentals of transistors. New York, J. F. Rider; London, C. & H., 1955. pp.[4],140, illus., diagrs. $2.70 or 21s. *(B) 208*

ELECTRICAL COMMUNICATIONS

[See *173*]

WORKSHOP PRACTICE

HOEFKENS, L. J.

Materials handling in works stores: the fork-life truck and pallet system. 2nd ed. Iliffe, for 'Mechanical Handling', 1954. pp.196, illus., diagrs. 18s. *(B) 209*

MINING

COTTON, H., *ed.*

Electrical equipment in mines. Newnes, 1955. pp.vii,456, illus., tables, diagrs. 50s. 'Well illustrated survey of present day techniques and equipment.' *(B) 210*

EVE, A. S., *and* **KEYS, D. A.**

Applied geophysics in the search for minerals. 4th ed. Cambridge, C.U.P., 1954. pp.x,382, illus., tables, diagrs., bibliog. 40s. *(B) 211*

CIVIL

GREAT BRITAIN. Ministry of Works *and* **INSTITUTION OF STRUCTURAL ENGINEERS**

Proceedings of the Conference on Welded Structures, London, 23 to 26 November, 1953. H.M.S.O., 1954. pp.viii,315, plates, diagrs., tables. 40s. *(B) 212*

MANNING, G. P.

Reinforced concrete arch design: a text-book for engineers and advanced students. 2nd ed. Pitman, 1955. pp.xii,192, plates, tables, diagrs. 30s. *(C) 213*

AUTOMOBILE

MUNRO, D. W.

Sunbeam motor cycles. A. Pearson, 1954. pp.viii,138, illus., tables, diagrs. 6s. *Motor cycle maintenance and repair series.* *(A) 214*

AERONAUTICAL

GREEN, D. W., *and* **POLLINGER, G.,** *comps.*

The world's fighting planes. Macdonald, 1954. pp.240, illus., diagrs. 12s. 6d. *(A) 215*

AGRICULTURE

GREAT BRITAIN. Ministry of Agriculture and Fisheries

The farm as a business: a handbook of standards and statistics for use in farm management advisory work. H.M.S.O., 1955. pp.107, tables. 4s. *(B) 216*

MACHINERY

POWER farming technical annual, 1954. Sydney, Sydney and Melbourne Publishing, 1954. pp.363, illus. 12s. 6d. *(D) 217*

SOILS

THORNE, D. W., *and* **PETERSON, H. B.**

Irrigated soils: their fertility and management. 2nd ed. New York, Blakiston, 1954. pp.392, illus., diagrs. $6.50. *(C) 218*

CROPS

DE GEUS, J. G.

Means of increasing rice production. Geneva, Centre d'Etude de l'Azote, 1954. pp.143, illus. Price not stated. *(B) 219*

SANDERSON, F. H.

Methods of crop forecasting. Cambridge, Mass., Harvard University P.; London, O.U.P., 1954. pp.xv,259, tables, diagrs., bibliog. $5, or 40s. *Harvard economic series.* *(C) 220*

D15768

FRUIT GROWING

CHILDERS, N. F., *ed.*
Mineral nutrition of fruit crops. New Brunswick, N.J., Rutgers University P., 1954. pp.907, illus., tables, diagrs., bibliog. $10. *(B) 221*

HORTICULTURE

PINKERTON, M. H.
Commercial mushroom growing. Benn, 1954. pp.223, illus., tables, diagrs., bibliog. 21s. *(B) 222*

LIVESTOCK

HAGEDOORN, A. L.
Animal breeding. 5th ed. with a memoir by J. Hammond. C. Lockwood, 1954. pp.xix,364, front., plates, diagrs., bibliog. 18s. *Agricultural and horticultural series.* *(B) 223*

PRINTING AND PUBLISHING

CLOWES, W. & Sons Ltd.
A book printer's display material, as used by William Clowes & Sons Ltd. at the Caxton Works, Beccles. London and Beccles, Clowes, 1954. pp.xv,246, tables. 50s. *(D) 224*

LEWIS, J. *and* **BRINKLEY, J.**
Graphic design, with special reference to lettering, typography and illustration. Routledge and K. Paul, 1954. pp.198, plates, illus., bibliog. 30s. *(B) 225*

[See also *172*]

TRANSPORT

CORAM (PUBLISHERS) LTD.
The bulk cargoes: their sources, destinations, ship types and methods of handling. Coram (Publishers), 1954. pp.180, illus., diagrs. 40s. (Obtainable from Messrs. Barker & Howard Ltd., London.) *(B) 226*

WORLD railways: a worldwide survey of railway operation and equipment; comp. and ed. by H. Sampson. 3rd ed. Sampson, Low, Marston, 1954. pp.x,462, illus., maps, tables, diagrs. 84s. *(A) 227*

INDUSTRIAL ORGANIZATION

GREAT BRITAIN. Treasury. *Organization and Methods Division*
Machines and appliances in Government offices. Rev. ed. H.M.S.O., 1954. pp.71, illus., diagrs. 7s. 6d. *(B) 228*

GREAT BRITAIN. Treasury. *Organization and Methods Division*
The practice of O. & M. H.M.S.O., 1954. pp.48. 5s. *(B) 229*

OFFICE MANAGEMENT. ASSOCIATION Organization and Methods Group
How to design a procedure. The Association, 1954. pp.37, diagrs. 6s. *(B) 230*

CHEMICAL TECHNOLOGY

MOLLOY, E., *and* **CARR, E.,** *eds.*
Catalysts, special compounds and chemical-resistant materials. Newnes, 1955. pp.x,222, illus., tables, diagrs., bibliog. 21s. *Chemical and chemical engineering series.* 'An authoritative series of monographs reviewing the subject matter given in the title.' *(C) 231*

MOLLOY, E., *and* **CARR, E.,** *eds.*
Chemical engineering processes and equipment. Newnes, 1955. pp.viii,236, illus., diagrs., tables, bibliog. 21s. *Chemical and chemical engineering series.* 'Emphasis is on practical considerations and much valuable information is condensed into this accessible volume.' *(C) 232*

MOLLOY, E., *and* **CARR, E.,** *eds.*
Fluid handling. Newnes, 1955. pp.viii,207, illus., tables, diagrs., bibliog. 21s. *Chemical and chemical engineering series.* *(B) 233*

FUEL

INSTITUTE OF PETROLEUM
I P engine tests for rating fuels. The Institute, 1955. pp.84, illus. 20s. *(C) 234*

INSTITUTE OF PETROLEUM
Standard methods for testing petroleum. 14th ed. The Institute, 1955. pp.688, illus. 40s. *(C) 235*

FOOD

SIMMONS, N. O.
Compound milling and associated subjects. L. Hill, 1955. pp.xix,279, front., plates, tables, diagrs. 42s. *(C) 236*

METALLURGY

HOPKINS, D. W.
Physical chemistry and metal extraction. J. Garnet Miller, 1954. pp.xv,232, tables, diagrs., bibliog. 30s. 'A textbook for students of extraction metallurgy which will be helpful also to research and technical workers in this field.' *(B) 237*

MANUFACTURES

METALS

MARYON, H.
Metalwork and enamelling: a practical treatise on gold and silversmiths' work and their allied crafts. 3rd ed. rev. C. & H., 1954. pp.xvi,331, plates, tables, diagrs., bibliog. 36s. 'A standard manual for jewellers and other workers in precious metals.' *(C) 238*

SHARMAN, J. C.
Drop, press and machine forging. Machinery Publishing, 1954. pp.163, illus., tables, diagrs. 17s. 6d. 'Deals in a practical way with the various aspects of the production of hot-forged ferrous products.' *(B) 239*

TEXTILES

CARPET annual: Annuaire de l'Industrie de Tapis, 1954; ed. by H. F. Tysser. British-Continental Trade P., 1954. pp.355, illus., tables. 20s. *(D) 240*

HARRIS, M., *ed.*
Handbook of textile fibers. Washington, D.C., Harris Research Laboratories, 1954. pp.356, illus., diagrs., tables. $12.50. *(B) 241*

WILDMAN, A. B.
The microscopy of animal textile fibres, including methods for the complete analysis of fibre blends. Leeds, Wool Industries Research Association, 1954. pp.viii,209, illus., tables, diagrs., bibliog. 42s. *(B) 242*

RUBBER

WHITBY, G. S., *ed.*
Synthetic rubber. New York, Wiley; London, C. & H., 1954. pp.viii,1044, illus., tables, diagrs., bibliog. $18 or 144s. 'Prepared under the auspices of the Division of Rubber Chemistry, American Chemical Society.' *(C) 243*

PLASTICS

SONNEBORN, R. H., *and others*
Fiberglas reinforced plastics; by R. H. Sonneborn, A. G. H. Dietz and A. S. Heyser. New York, Reinhold; London, C. & H., 1954. pp.xi,240, illus., diagrs., bibliog. $4.50 or 36s. *(C) 244*

FINE MECHANISMS

PAYNE, B. O.
Microscope design and construction. York, Cooke, Troughton & Simms, 1954. pp.201, front., illus., table, diagrs., bibliog. 25s. *(B) 245*

BUILDING

FROST, W.
The modern bricklayer. 3rd ed. Caxton Publishing, 1954. 3 v. 104s. 6d. *(B) 246*

FROST, W., *and* **HOUGHTON, R. V.**
Modern practical brickwork. Batsford, 1954. pp.xiv,400, plates, illus., diagrs., tables. 50s. *(B) 247*

MACFARLANE, A. A.
Site supervision: a handbook for architects and assistants. Architectural P., 1954. pp.159, diagrs. 16s. *(B) 248*

[See also *181, 191*]

ARCHITECTURE

CARTER, D. G.
Farm buildings; line drawings by K. H. Hinchcliff. 4th ed. rewritten. New York, Wiley; London, C. & H., 1954. pp.vii,291, illus., maps, plans, tables, diagrs. $4.50 or 44s. *(B) 249*

GREAT BRITAIN. Building Research Station
A study of the interreflection of daylight using model rooms and artificial skies; by R. G. Hopkinson and J. Longmore. H.M.S.O., 1954. pp.iv,24, front., tables, diagrs., bibliog. 2s. *National building studies research papers series, no. 24.* *(B) 250*

PHOTOGRAPHY

GEE, R.
The secret of better enlarging. Fountain P., 1954. pp.50, illus., table, diagrs. 2s. 6d. *(A) 251*

PEARLMAN, A.
Rollei handbook. Fountain P., 1954. pp.160, illus., tables, diagrs. 12s. 6d. *(A) 252*

GEOGRAPHY

JONES, L. R., *and* **BRYAN, P. W.**
North America: an historical, economic and regional geography. 10th ed. rev. London, Methuen; New York, Dutton, 1954. pp.xvi,582, front., maps, tables, diagrs. 25s. or $4·25. *Methuen's advanced geographies series.* *(B) 253*

BIOGRAPHY

CROWTHER, J. G.
Six great inventors: Watt, Stephenson, Edison, Marconi, Wright Brothers, Whittle. H. Hamilton, 1954. pp.235, plates, bibliog. 10s. 6d. *(A) 254*

WHO knows—and what among authorities—experts—and the specially informed. Rev. ed. Chicago, Marquis—Who's Who, 1954. pp.907. $18.60. *(D) 255*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 21
Agriculture, 21
Architecture, 24
Astronomy, 19
Automobile engineering, 21

Bibliography, 17
Biochemistry, 19
Biography, 24
Biology, 19
Building, 24

Chemical technology, 22
Chemistry, 19
Civil engineering, 21
Crops, 21

Directories and yearbooks, 18
Documentation, 17

Economics, 18
Education, 18
Electrical communications, 20
Electrical engineering, 20
Engineering, 20

Fine mechanisms, 24
Food, 23
Fruit growing, 22
Fuel, 23

Geodesy, 19
Geography, 24

Horticulture, 22

Industrial organization, 22

Librarianship, 17
Livestock, 22

Machinery, 21
Manufactures, 23
Mathematics, 18
Mechanical engineering, 20
Metallurgy, 23
Metals, 23
Mining, 21

Photography, 24
Physics, 19
Plastics, 24
Printing and publishing, 22
Psychology, 18
Public health, 20

Rubber, 23

Social sciences, 18
Soils, 21

Textiles, 23
Transport, 22

Workshop practice, 21

Zoology, 20

AUTHOR OR TITLE INDEX

Ashurst, W., 192
Atkinson, A. D. S., 204

Bettridge, B. R. A., 205
Birkett, F. M., *comp.*, 175
Bland, D., 172
Brinkley, J., 225
British Engine Boiler & Electrical Insurance Co. Ltd., Manchester, 200
British Institution of Radio Engineers, 173
Brogan, C., 184
Bryan, P. W., 253
Burnet, J. F., *ed.*, 187

Carpet annual, 1954, 240
Carr, E., *ed.*, 231, 232, 233
Carter, D. G., 249
Chicago. University. Graduate Library School, 177
Childers, N. F., *ed.*, 221
Clowes, W., and Sons, Ltd., 224
Coram (Publishers) Ltd., 226
Cotton, H., *ed.*, 210
Crowther, J. G., 254

De Geus, J. G., 219
Dietz, A. G. H., 244
De Ville, E., 206

Egan, M. E., *ed.*, 177
Eve, A. S., 211

Frost, W., 246, 247

Gaposchkin, C. Payne-, 190
Gee, R., 251
Geus, J. G. De, 219
Great Britain. Building Research Station, 250
Great Britain. Ministry of Agriculture and Fisheries, 216
Great Britain. Ministry of Education, 185
Great Britain. Ministry of Works, 212
Great Britain. Treasury. Organization and Methods Division, 228, 229
Green, D. W., *comp.*, 215

Hagedoorn, A. L., 225
Hardy, G. H., 188
Harris, M., *ed.*, 241
Henderson, G. P., 174
Heyser, A. S., 244
Hilton, W. S., 181
Hoefkens, L. J., 209
Hopkins, D. W., 237
Hopkinson, R. G., 250
Hornby, H., 192
Houghton, R. V., 247

Ibbetson, W. S., 207
Ingram, M., 197
Institute of Petroleum, 234, 235
Institute of Physics, 193
Institution of Structural Engineers, 212
Ireland, N. O., 178

James, E. J., 189
Jefferys, J. B., 182
Joint University Council for Social Studies and Public Administration, 175

Jones, L. R., 253

Kempe's engineers' year-book for 1955, 202
Keys, D. A., 211
Knight, B. H., 191
Krugman, L. M., 208

Lee, W. A., 183
Lewis, H., 180
Lewis, J., 225
Longmore, J., 250
Lovern, J. A., 198

Macfarlane, A. A., 248
Macfarlane, D. I., 201
Manning, G. P., 213
Maryon, H., 238
Maurin, R., 176
Mee, A. J., 195
Molloy, E., *ed.*, 231, 232, 233
Morley, D. W., 199
Munro, D. W., 214

Office Management Association. Organization and Methods Group, 230

Parker, N. F., *ed.*, 207
Payne, E. O., 245
Payne-Gaposchkin, C., 190
Pearlman, A., 252
Pedley, R., 186
Pendred, B. W., *ed.*, 202
Peters, Sir R., *ed.*, 198
Petersen, H. B., 218
Pinkerton, M. H., 222
Pollinger, G., *comp.*, 215
Power farming technical annual, 1954, 217
Prockter, C. E., *ed.*, 202
Public and preparatory schools year book, 1954–1955, 187

Ryder, G. H., 203

Sampson, H., *comp.* and *ed.*, 227
Sanderson, F. H., 220
Say, M. G., *ed.*, 194
Sharman, J. C., 239
Simmons, N. O., 236
Sonneborn, R. H., 244
Spiker, J., 171

Taylor, L. W., *ed.*, 187
Thompson, F. G., *ed.*, 207
Thorne, D. W., 218
Tysser, H. F., *ed.*, 240

Union of International Associations, 179
Urwin, C. R., *ed.*, 207

Ville, E. De, 206

Waksman, S. A., *ed.*, 196
Whitby, G. S., *ed.*, 243
Wheeler, D. M. S., *ed.*, 195
Who knows—and what among authorities—experts—and the specially informed, 255
Wildman, A. B., 242
World railways, 227
Wright, E. M., 188

Young, F. G., *ed.*, 198

WATERLOW & SONS LIMITED, LONDON & DUNSTABLE.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 4
APRIL 1955
Nos. 256-339

Aslib members: 12s. p.a.
Non-members: 21s. p.a.

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629: 1950.

ASLIB BOOK-LIST

Volume 20 *Number 4* *April 1955*

GENERAL SCIENCE

ANTHONY, H. D.

Science and its background. 2nd ed. Macmillan, 1955. pp.ix,337, front., illus., maps, tables, diagrs. 20s. 'A most useful outline for the general reader.' *(A) 256*

[See also *278*]

DOCUMENTATION

AMERICAN CHEMICAL SOCIETY. Division of Chemical Literature

Literature resources for chemical process industries: a collection of papers comprising five symposia and thirteen general papers presented before the Division . . . at several recent national meetings. Washington, the Society, 1954. pp.viii,582. $6.50 or 58s. 6d. *Advances in chemistry series, no. 10.* *(B) 257*

SCHMID, C. F.

Handbook of graphic presentation. New York, Ronald Press, 1954. pp.vii, 316, illus., maps, tables, diagrs. $6. *(B) 258*

UNITED STATES. Department of Commerce. Advisory Committee on Application of Machines to Patent Office Operations

Report to the Secretary of Commerce. Washington, Department of Commerce, 1954. pp.76. $1. *(C) 259*

BIBLIOGRAPHY

BUSH, G. P.

Bibliography on research administration; annotated. Washington, D.C., University Press of Washington, D.C., 1954. pp.v,146. $4. *(D) 260*

KNIGHT, R. L.

Abstract bibliography of cotton breeding and genetics, 1900–1950. Farnham Royal, Bucks., Commonwealth Agricultural Bureaux, 1955. pp.256. 21s. *Commonwealth Bureau of Plant Breeding and Genetics, Technical communication 17.* *(D) 261*

MINNESOTA. University. *Industrial Relations Center*

Leadership and executive development; a bibliography, by H. Fox, S. D. Walton, W. E. Kirchner and T. A. Mahoney. Minneapolis, University of Minnesota Press, 1954. pp.iii,56. $1.50. *(D) 262*

NATIONAL BOOK LEAGUE

Books about books; catalogue of the Library of the National Book League. C.U.P. for the League, 1955. pp.x,126. 10s. 6d. *(D) 263*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION. Department of Mass Communication. *Clearing House*

Tentative international bibliography of works dealing with press problems (1900–1952). Paris, Unesco, 1954. pp.96. 3s., 50c., or 150 fr. *Reports and papers on mass communication, no. 13.* (*D*) *264*

[See also *324*]

DIRECTORIES AND YEARBOOKS

[See *310* and *358*]

PHILOSOPHY

RICHMOND, W. K.

Socrates and the western world: an essay in the philosophy of education. Redman, 1954. pp.214. 10s. 6d. (*B*)*265*

PSYCHOLOGY

WOODWORTH, T. S., *and* **SCHLOSBERG, H.**

Experimental psychology. Rev. ed. Methuen, 1955. pp.xi,948, illus., diagrs., tables, bibliog. 66s. 'An up-to-date and largely re-written edition of one of the best known American textbooks.' (*C*) *266*

SOCIAL SCIENCES

Economics

MEHTA, S. D.

The cotton mills of India, 1854–1954; with a foreword by Sir H. Mody. Bombay, Textile Association, 1954. pp.xv,303, illus. Rs. 15 or 30s. (*A*) *267*

STAMP, L. D.

Man and the land. Collins, 1955. pp.xvi,272, plates, maps, tables, diagrs., bibliog. 25s. *New naturalist series, ed. by J. Fisher and others, no. 31.* (*B*) *268*

SVENNILSON, I.

Growth and stagnation in the European economy. Geneva, United Nations; London, H.M.S.O., 1954. pp.342, tables. 32s. 6d. (*B*) *269*

EDUCATION

EDUCATIONAL FOUNDATION FOR VISUAL AIDS

Visual aids, films and filmstrips, part I: scripture, English, languages, history for secondary schools. Rev. and enlarged. London, the Foundation, 1955. pp.vii,152. 3s. 3d. (*D*) *270*

GREAT BRITAIN. Ministry of Education

Training colleges in England and Wales recognised by the Minister. H.M.S.O., 1955. pp.36, tables. 1s. 3d. (*D*) *271*

GREAT BRITAIN. Scottish Education Department, and NATIONAL JOINT COUNCIL TO DEAL WITH SALARIES OF TEACHERS IN SCOTLAND. Working party

The structure of further education salaries. Edinburgh, H.M.S.O., 1955. pp.24, tables. 9d. (*B*) *272*

HOCKING, W. E.

Experiment in education: what we can learn from teaching Germany. Chicago, H. Regnery; London, A. & U., 1954. pp.xvi,303. 35s. or $5. (*B*) *273*

INSTITUTE OF CHRISTIAN EDUCATION AT HOME AND OVERSEAS
Research Committee

Religious education in schools: the report of an enquiry made by the Research Committee of the Institute of Christian Education into the working of the 1944 Education Act. National Society; S.P.C.K., published for the Institute, 1955. pp.xii,157, tables. 8s. 6d. *(B) 274*

JEFFREYS, M. V. C.

Beyond neutrality: five essays on the purpose of education. Pitman, 1955. pp.xii,60. 8s. 6d. *(B) 275*

McLEAN, D. J.

Nature's second sun: leaves from a teacher's log; with a foreword by J. A. Lauwerys. Heinemann, 1954. pp.xii,130. 10s. 6d. *(B) 276*

SCIENCE MASTERS' ASSOCIATION. M.K.S. Committee

The teaching of electricity, with special reference to the use of M.K.S. units: a report of a sub-committee of the Science Masters' Association. J. Murray, for the Association, 1954. pp.xii,135, tables, diagrs. 10s. 6d. *(B) 277*

[See also *265*]

DICTIONARIES

FLOOD, W. E., *and* **WEST, M.**

An explaining and pronouncing dictionary of scientific and technical words. L.G., 1955. pp.viii,397, illus., diagrs. 12s. 6d. *(D) 278*

[See also *289*]

MATHEMATICS

KYNCH, G. J.

Mathematics for the chemist: mathematical analysis for chemists, physicists and chemical engineers. Butterworth, 1955. pp.vii,356, tables, diagrs. 30s. *(B) 279*

ASTRONOMY

The EQUATORIE of the planetis; edited from Peterhouse MS. 75.I by D. J. Price, with a linguistic analysis by R. M. Wilson. Cambridge, C.U.P., 1955. pp.xvi,214, front., plates, tables, diagrs. 52s. 6d. *(C) 280*

MOORE, P.

Guide to the planets. Eyre & Spottiswoode, 1955. pp.222, front., plates, tables, diagrs. 21s. *(A) 281*

PHYSICS

SEMAT, H.

An introduction to atomic and nuclear physics. 3rd rev. ed. C. & H., 1955. pp.xiii,561, front., illus., tables, diagrs. 50s. *(B) 282*

YOURGRAU, W., *and* **MANDELSTAM, S.**

Variational principles in dynamics and quantum theory. Pitman, 1955. pp.ix,155, diagrs. 25s. 'A methodical investigation into the scope and nature of the principle of least action.' *(C) 283*

CHEMISTRY

INSTITUTE OF PETROLEUM

Applied mass spectrometry: report of a conference organized by the Mass Spectrometry Panel of the Institute of Petroleum and held in London, 29–31 October, 1953. The Institute, 1955. pp.vii,333, illus., tables, diagrs., bibliog. 50s. *(C) 284*

RAPHAEL, R. A.

Acetylenic compounds in organic synthesis. Butterworth, 1955. pp.xii,219, bibliog. 30s. 'An excellent, up-to-date review of the subject, well documented.' *(C) 285*

ROBINSON, R. A., *and* **STOKES, R. H.**

Electrolytic solutions: the measurement and interpretation of conductance, chemical potential and diffusion in solutions of simple electrolytes. Butterworth, 1955. pp.xiii,512, illus., tables, bibliog. 56s. 'Especially useful to those requiring good descriptions of methods and actual experimental data.' *(C) 286*

STOTT, R. W.

A companion to physical and inorganic chemistry. L.G., 1955. pp.ix,184, tables, diagrs. 9s. *(B) 287*

TRAPNELL, B. M. W.

Chemisorption. Butterworth, 1955. pp.vii,265, illus., diagrs., tables, bibliog. 35s. *(C) 288*

GEOLOGY

HIMUS, G. W., *comp.*

A dictionary of geology. Harmondsworth, Penguin Books, 1955. pp.[6],153, illus., plates, maps, diagrs. 2s. *Penguin reference books.* *(D) 289*

BIOCHEMISTRY

DUBOS, R. J.

Biochemical determinants of microbial diseases. Cambridge, Mass., Harvard University Press, 1954. pp.viii,152, tables. 28s. or $3.50. *Harvard University monographs in medicine and public health, no. 13.* *(C) 290*

FRY, B. A.

The nitrogen metabolism of micro-organisms. Methuen, 1955. pp.ix,166 plates, diagrs., bibliog. 9s. 6d. *Methuen's monographs on biochemical subjects, ed. by Sir R. Peters and F. G. Young.* *(C) 291*

NEURATH, H., *and* **BAILEY, K. C.**

The proteins: chemistry, biological activity and methods. New York, Academic Press, 1954. pp.756, plates, illus. $16.50. *(C) 292*

BOTANY

PAECH, K., *and* **TRACEY, M. V.,** *eds.*

Modern methods of plant analysis; vol. II. Berlin, Springer-Verlag. pp.xii, 626, tables, diagrs., bibliog. 140s. *(C) 293*

ZOOLOGY

BORROR, D. J., *and* **DE LONG, D. M.**

An introduction to the study of insects. New York, Rinehart, 1954. pp.ix, 1030, illus. $9. *(B) 294*

BRUES, C. T.

Classification of insects; keys to the living and extinct families of insects, and to the living families of other terrestrial arthropods. Rev. ed. Cambridge, Mass., Harvard Museum of Comparative Zoology, 1954. pp.v,917, illus. $9. *(C) 295*

HICKIN, N. E.

Woodworm: its biology and extermination. Published by the author and distributed by Simpkin Marshall, 1955. pp.84, illus., diagrs. 10s. 6d. *(B) 296*

VETERINARY SCIENCE

LAING, J. A.

Fertility and infertility in the domestic animals: aetiology, diagnosis and treatment: a textbook for veterinary surgeons and students of agricultural and veterinary science; with a foreword by J. Hammond. Baillière, Tindall & Cox, 1955. pp.xii,256, front., plates, tables, diagrs., bibliog. 35s. *(B) 297*

UDALL, D. H.

The practice of veterinary medicine. 6th ed. Baillière, Tindall & Cox, 1955. pp.x,811, illus., tables, bibliog. 65s. *(B) 298*

ENGINEERING

Automatic Control

WIENER, N.

The human use of human beings. Rev. ed. Eyre & Spottiswoode, 1954. pp.199. 18s. *(A) 299*

Testing Materials

LESSELLS, J. M.

Strength and resistance of metals. New York, Wiley; London, C. & H., 1954. pp.450. 80s. or $10. *(C) 300*

Steam

POWELL, S. T.

Water conditioning for industry. London, New York, McG.-H., 1954. pp.548, illus., bibliog. $9 or 64s. 6d. *(C) 301*

Electrical

VON HIPPEL, A. R., *ed.*

Dielectrics and waves. New York, Wiley, London, C. & H., 1954. pp.284, illus., diagrs. $16 or 128s. *(C) 302*

VON HIPPEL, A. R., *ed.*

Dielectric materials and applications; papers by 22 contributors. New York, Massachussetts Institute of Technology and Wiley; London, C. & H., 1954. pp.438, illus., diagrs. $17.50 or 140s. *(C) 303*

Internal Combustion

JUDGE, A. W.

The testing of high speed internal combustion engines, with special reference to automobile and aircraft types including gas turbines. 4th rev. ed. C. & H., 1955. pp.xvi,494, plates, illus., tables, diagrs. 75s. 'The most comprehensive work on the subject; this edition has been substantially revised.' *(C) 304*

Workshop Practice

LIPS, E. M. H.

Engineering metallurgy. Cleaver-Hume Press, 1954. pp.250, illus., 32s. 6d. *(B) 305*

CIVIL

BRITISH STEEL PRODUCERS' CONFERENCE *and* BRITISH IRON AND STEEL FEDERATION

Steel designers' manual; by C. S. Gray, L. E. Kent, W. A. Mitchell, G. B. Godfrey. C. Lockwood for the British Steel Producers' Conference and the British Iron and Steel Federation, 1955. pp.vii,909, illus., tables, diagrs. 50s. *(A) 306*

CASSIE, W. F.

Structural analysis: the solution of statically indeterminate structures; with a foreword by H. J. Collins. 2nd ed. L.C., 1955. pp.xi, 269, tables, diagrs. 18s. *(B/C) 307*

KELLOG, F. H.

Construction methods and machinery. New York, Prentice-Hall, 1954. pp.415, illus., diagrs. $10 or 80s. *(C) 308*

MAGNEL, G.

Prestressed concrete. 3rd ed. rev. and enlarged. Concrete Publications, 1954. pp.vi,345, illus., tables, diagrs., bibliog. 20s. *Concrete series.* *(B) 309*

AGRICULTURE

FARMER and stock breeder year book 1955. Farmer and Stockbreeder Publications, 1954. pp.404, illus., tables, diagrs. 10s. 6d. 'Includes a short series of articles on various subjects including recent machinery developments.' *(D) 310*

MACHINERY

MOUAT, G. C., *and* COLEMAN, F.

Tillage implements. Temple Press, in association with "Farm mechanization", 1955. pp.xi,170, plates, diagrs., bibliog. 21s. *(B) 311*

REYNOLDS, P. A.

Maintenance of horticultural equipment. A. & U., 1955. pp.183, illus., diagrs. 16s. 'A practical guide to the choice, care and maintenance of equipment.' *(B) 312*

CROPS

ROSE, G. J.

Crop protection. L. Hill, 1955. pp.xxi,223, front., plates, illus., tables, diagrs. 30s. *(B) 313*

[See also *261*]

FRUIT GROWING

MARSHALL, R. E.

Cherries and cherry products. New York, London, Interscience, 1954. pp.xiv,283. $8.50 or 65s. *Economic crops series, vol. V.* *(B) 314*

FORESTRY

HAWLEY, R. C., *and* SMITH, D. M.

The practice of silviculture. 6th ed. C. & H., 1955. pp.vii,525, illus., tables, diagrs., bibliog. 60s. *(B) 315*

LIVESTOCK

FRASER, A.

Sheep farming; with a foreword by Lord Boyd Orr. 6th ed. rev. C. Lockwood, 1955. pp.150, plates. 12s. 6d. *Agricultural and horticultural series, ed. by H. C. Long.* *(B) 316*

DAIRYING

DAVIS, J. G.

A dictionary of dairying; with some sections specially contributed. 2nd ed. rev. and enlarged. L. Hill, 1955. pp.xxviii,1132, plates, maps, tables, diagrs., bibliog. 65s. *(D) 317*

TRANSPORT

ASTLE, W. E.

Shipowners' cargo liabilities and immunities. 2nd ed. Witherby, 1954. pp.x,386. 30s. *(B) 318*

FAIR, M. L.

Port administration in the United States. Cambridge, Mass., Cornell Maritime Press, 1954. pp.xvi,217, illus., diagrs. $6 or 45s. *(B) 319*

INSTITUTE OF PETROLEUM

The role of petroleum in modern transport: report of the Institute of Petroleum summer meeting, held at Llandudno 12th-15th May, 1954; ed. by G. Sell. The Institute, 1955. pp.viii,184, illus., tables, diagrs. 30s. *(B) 320*

MASON, E.

The Lancashire & Yorkshire Railway in the twentieth century. Allan, 1954. pp.[8],236, front., illus., tables, diagrs. 25s. *(A) 321*

INDUSTRIAL ORGANIZATION

FAWTHROP, A.

Accounts for retailers. Macdonald, 1955. pp.160, illus., tables, diagrs. 9s. 6d. *Distributive trade series, ed. by R. G. Magnus-Hannaford.* *(B) 322*

JONES, P. W.

Practical job evaluation: the applications of wage determination to wage structures. New York, Wiley; London, C. & H., 1955. pp.xvi,304, illus., diagrs. 48s. or $6. *(B) 323*

NATIONAL RECORDS MANAGEMENT COUNCIL. Technical Information Service

Guide to selected readings in records management. New York, the Council, 1954. pp.27. $2.85. *(D) 324*

OSWIN, C. R.

Protective wrappings. Cam Publications, 1954. pp.268, plates, tables, diagrs., bibliog. 32s. *(B) 325*

TRUNDLE, G. T., *ed.*

Managerial control of business; editor, G. T. Trundle, associate editor, S. A. Peck. New York, Wiley; London, C. & H., 1955. pp.viii,408, illus., diagrs. 48s. or $6. *(B) 326*

[See also *262*]

CHEMICAL TECHNOLOGY

BAKER, F. J., *and others*

An introduction to medical laboratory technology; by F. J. Baker, R. E. Silverton and E. D. Luckock. Butterworth, 1955. pp.x,330, illus., diagrs. 30s. *(B) 327*

[See also *257*]

FOOD

MRAK, E. M., *and* **STEWART, G. F.,** *eds.*

Advances in food research: vol. 5. New York, Academic Press; London, Academic Books, 1954. pp.538, illus., diagrs. $11.50 or 92s. *(C) 328*

PAINT

OIL AND COLOUR CHEMISTS' ASSOCIATION

An introduction to paint technology: a survey by members of the Oil and Colour Chemists' Association. Rev. ed. The Association, 1954. pp.[6],154, illus., plates, tables. 6s. 6d. *(B) 329*

MANUFACTURES

TEXTILES

REVIEW of textile progress: vol. 5, 1953. Manchester, Textile Institute and Society of Dyers & Colourists, 1955. pp.239. 35s. *(D) 330*

TEXTILE INSTITUTE, Manchester

Textile terms and definitions. Manchester, The Institute, 1954. pp.46, illus., diagr. 5s. *(D) 331*

UNITED STATES. Department of Agriculture

Wool statistics and related data; comp. by E. A. Roseburrough. Washington, U.S.G.P.O., 1954. pp.x,135. 45c. *(D) 332*

WALKER, H.

Worsted drawing and spinning; Part 1, Drawing. Manchester, Textile Institute, 1954. pp.239, illus., tables, diagrs. 21s. *(B) 333*

WOOL INDUSTRIES RESEARCH ASSOCIATION

Testing and control in the wool industry. Leeds, the Association, 1955. pp.277. 25s. *Wool research series, vol. 3.* *(C) 334*

[See also 26-]

PHOTOGRAPHY

PILKINGTON, W. J.

Colour portraiture indoors and outdoors. Fountain P., 1954. pp.161–212, illus., diagrs. 7s. 6d. *Colourfacts, no. 4.* *(A) 335*

PILKINGTON, W. J.

Pictorial photography in colour. Fountain P., 1954. pp.109–156, illus. 7s. 6d. *Colourfacts, no. 3.* *(A) 336*

CINEMATOGRAPHY

BULLEID, H. A. V.

Special effects in cinematography. Fountain P., 1955. pp.viii,264, illus., tables, diagrs. 21s. *(B) 337*

FILM COUNCIL OF AMERICA

A guide to film services of national associations. Evanston, Ill., the Council, 1954. pp.1,146. $2. *Film counsellor series number two.* *(D) 338*

BIOGRAPHY

KENDALL, J.

Michael Faraday. Faber, 1955. pp.196, front., plates. 12s. 6d. *(A) 339*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Agriculture, 24
Astronomy, 21
Automatic control, 23

Bibliography, 19
Biochemistry, 22
Biography, 26
Botany, 22

Chemical technology, 25
Chemistry, 21
Cinematography, 26
Civil engineering, 24
Crops, 24

Dairying, 25
Dictionaries, 21
Directories and yearbooks, 20
Documentation, 19

Economics, 20
Education, 20
Electrical engineering, 23
Engineering, 23

Food, 26
Forestry, 24
Fruit growing, 24

General science, 19
Geology, 22

Industrial organization, 25
Internal combustion, 23

Livestock, 24

Machinery, 24
Manufactures, 26
Mathematics, 21

Paint, 26
Philosophy, 20
Photography, 26
Physics, 21
Psychology, 20

Social sciences, 20
Steam engineering, 23

Testing materials, 23
Textiles, 26
Transport, 25

Veterinary science, 23

Workshop practice, 23

Zoology, 22

AUTHOR OR TITLE INDEX

American Chemical Society. Division of Chemical Literature, 257
Anthony, H. D., 256
Astle, W. E., 318
Bailey, K. C., 292
Baker, F. J., 327
Borror, D. J., 294
British Iron and Steel Federation, 306
British Steel Producers' Conference, 306
Brues, C. T., 295
Bulleid, H. A. V., 337
Bush, G. P., 260
Cassie, W. F., 307
Coleman, F., 311
Davis, J. G., 317
De Long, D. M., 294
Department of Agriculture, 332
Department of Mass Communication. Clearing House, 264
Dubos, R. J., 290
Educational Foundation for Visual Aids, 270
Equatorie of the planetis, 280
Fair, M. L., 319
Farmer and Stock-breeder year book, 1955, 310
Fawthrop, A., 322
Film Council of America, 338
Fisher, J., *ed.*, 268
Flood, W. E., 278
Fox, H., 262
Fraser, A., 316
Fry, B. A., 291
Godfrey, G. B., 306
Gray, C. S., 306
Great Britain. Ministry of Education, 271
Great Britain. Scottish Education Department, 272
Hannaford, R. G. Magnus-, *ed.*, 322
Hawley, R. C., 315
Hickin, N. E., 296
Himus, G. W., *comp.*, 289
Hocking, W. E., 273
Institute of Christian Education at Home and Overseas. Research Committee, 274
Institute of Petroleum, 284, 320
Jeffreys, M. V. C., 275
Jones, P. W., 323
Judge, A. W., 304
Kellog, F. H., 308
Kendall, J., 339
Kent, L. E., 306
Kirchner, W. E., 262
Knight, R. L., 261
Kynch, G. J., 279
Laing, J. A., 297
Lessells, J. M., 300
Lips, E. M. H., 305
Long, D. M. De, 294
Long, H. C., *ed.*, 316
Luckock, E. D., 327
McLean, D. J., 276
Magnel, G., 309
Magnus-Hannaford, R. G., *ed.*, 322
Mahoney, T. A., 262
Mandelstam, S., 283
Marshall, R. E., 314
Mason, E., 321
Mehta, S. D., 267
Ministry of Education, 271
Minnesota. University. Industrial Relations Center, 262
Mitchell, W. A., 306
Moore, P., 281
Mount, G. C., 311
Mrak, E. M., *ed.*, 328
National Book League, 263
National Joint Council to deal with Salaries of Teachers in Scotland, 272
National Records Management Council. Technical Information Service, 324
Neurath, H., 292
Oil and Colour Chemists' Association, 329
Oswin, C. R., 325
Paech, K., *ed.*, 293
Peck, S. A., *ed.*, 326
Peters, *Sir* R., *ed.*, 291
Pilkington, W. J., 335, 336
Powell, S. T., 301
Price, D. J., *ed.*, 280
Raphael, R. A., 285
Review of textile progress: vol. 5, 1953, 330
Reynolds, P. A., 312
Richmond, W. K., 265
Robinson, R. A., 286
Rose, G. J., 313
Roseburrough, E. A., *comp.*, 332
Schlosberg, H., 266
Schmid, C. F., 258
Science Masters' Association. M.K.S. Committee, 277
Scottish Education Department, 272
Sell, G., *ed.*, 320
Semat, H., 282
Silverton, R. E., 327
Smith, D. M., 315
Stamp, L. D., 268
Stewart, G. F., *ed.*, 328
Stokes, R. H., 286
Stott, R. W., 287
Svennilson, I., 269
Technical Information Service, 324
Textile Institute, Manchester, 331
Tracey, M. V., *ed.*, 293
Trapnell, B. M. W., 288
Trumble, G. T., *ed.*, 326
Udall, D. H., 298
United Nations Educational, Scientific and Cultural Organization. Department of Mass Communication. Clearing House, 264
United States. Department of Agriculture, 332
United States. Department of Commerce. Advisory Committee on Application of Machines to Patent Office operations, 259
Von Hippel, A. R., *ed.*, 302, 303
Walker, H., 333
Walton, S. D., 262
West, M., 278
Wiener, N., 299
Wilson, R. M., 280
Woodworth, T. S., 266
Wood Industries Research Association, 334
Young, F. G., *ed.*, 291
Youngrau, W., 283

WATERLOW & SONS LIMITED, LONDON & DUNSTABLE

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 5
MAY 1955
Nos. 340-421

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629: 1950.

ASLIB BOOK-LIST

Volume 20 *Number 5* *May 1955*

DOCUMENTATION

BAGLEY, W. A.

Facts and how to find them; a guide to sources of information and to the method of systematic research. 5th ed. Pitman, 1954. pp.136. 8s. 6d. *(B) 340*

BIBLIOGRAPHY

FORD, P., *and* **FORD, G.**

A guide to parliamentary papers; what they are: how to find them: how to use them. Oxford, Blackwell, 1955. pp.xiii,79, tables. 7s. 6d. *(B) 341*

LIBRARIANSHIP

SPECIAL LIBRARIES ASSOCIATION. Financial Division

Subject headings for financial libraries; compiled by a committee of the Financial Division (chairman, J. Bogardus). New York, the Association, 1954. pp.viii,94. $5. *(D) 342*

TAUBE, M., *and others*

Studies in co-ordinate indexing, vol. II; by M. Taube and associates. [Washington, D.C.], Documentation Incorporated, 1954. pp.v,111, tables, diagrs. $5. *(C) 343*

TAUBER, M. F., *and others*

Technical services in libraries: acquisitions, cataloging, classification, binding, photographic reproduction and circulation operations, by M. F. Tauber and associates. New York, Columbia University Press; London, O.U.P., 1954. pp.xvi,487, diagrs. $6.50 or 52s. *Columbia University studies in library science, no. 7.* *(B) 344*

DIRECTORIES AND YEARBOOKS

[See *411*]

MUSEUMS

MUSEUMS and galleries in Great Britain and Northern Ireland. Index Publishers, 1955. pp.48, illus. 2s. 6d. *(D) 345*

PSYCHOLOGY

FLUGEL, J. C.

Man, morals and society: a psycho-analytical study. Harmondsworth, Penguin Books, 1955. pp.415, tables, bibliog. 3s. 6d. *Pelican books, no. A324.* *(A) 346*

GLOVER, E.

The technique of psycho-analysis. Baillière Tindall & Cox, 1955. pp.x,404. 35s. (*C*) *347*

SOCIAL SCIENCES

STATISTICS

HOEL, P. G.

Introduction to mathematical statistics. 2nd ed. New York, Wiley; London, C. & H., 1954. pp.xi,331, tables, diagrs. $5 or 40s. *Wiley publications in statistics.* (*B*) *348*

ECONOMICS

BROWN, A. J.

The great inflation, 1939–1951. Issued under the auspices of the Royal Institute of International Affairs by O.U.P., 1955. pp.xiv,321, tables, diagrs. 30s. (*B*) *349*

VOSKUIL, W. H.

Minerals in world industry. New York, London, McG.-H., 1955. pp.vii,324, maps, tables, diagrs., bibliog. 43s. or $5.75. (*B*) *350*

WOOTTON, B.

The social foundations of wage policy; a study of contemporary British wage and salary structure. A. & U., 1955. pp.200. 15s. (*B*) *351*

[See also *406*

PUBLIC ADMINISTRATION

CHAPMAN, B.

The Prefects and provincial France. A. & U., 1955. pp.247, bibliog. 18s. (*B*) *352*

EDUCATION

AMERICAN COUNCIL ON EDUCATION. Co-operative study of evaluation in general education

General education: explorations in evaluation: the final report of the study by P. L. Dressel and L. B. Mayhew. Washington, D.C., the Council, 1954. pp.xxiii,302. $3.50. (*C*) *353*

KRISHNAMURTI, J.

Education and the significance of life. Gollancz, 1955. pp.128. 8s. 6d. (*B*) *354*

MATHEMATICAL ASSOCIATION. Teaching Committee

The teaching of mathematics in technical colleges: a report prepared for the Mathematical Association. Bell, 1955. pp.vii,85, tables, diagrs. 6s. (*B*) *355*

MATHEMATICS

BARTLETT, M. S.

An introduction to stochastic processes. C U.P., 1955. pp.xiv,312. 35s. (*C*) *356*

BOOTH, A. D.

Numerical methods. Butterworth, 1955. pp.vii,195, tables, diagrs., bibliogs. 35s. (*B*) *357*

GREEN, S. L.

Advanced level applied mathematics. University Tutorial Press, 1955. pp.[4],324, tables, diagrs. 12s. 6d. *(B) 358*

ASTRONOMY

ALLER, L. H.

Astrophysics: nuclear transformations, stellar interiors and nebulae. New York, Ronald Press, 1954. pp.x,291, plates, diagrs. $12. *(C) 359*

PHYSICS

INGERSOLL, L. R., *and others*

Heat conduction: with engineering, geological and other applications; by L. R. Ingersoll, O. J. Zobel and A. C. Ingersoll. Rev. ed. Thames & Hudson, 1955. pp.xiii,325, tables, diagrs., bibliog. 32s. 6d. *(C) 360*

RIDENOUR, L. N., *ed.*

Modern physics for the engineer. New York, London, McG.-H., 1954. pp.xix,499, illus., tables, diagrs., bibliog. 50s. or $7.50. *(C) 361*

SELWYN, E. W. H.

Theory of lenses. Institute of Physics, 1955. pp.64, diagrs., bibliog. 5s. *Monographs for students, ed. by H. R. Lang.* *(B) 362*

CHEMISTRY

MILTON, R. F., *and* WATER, W. A., *comps. and eds.*

Methods of quantitative micro-analysis. 2nd ed. E. Arnold, 1955. pp.xi,742, tables, diagrs. 70s. 'Widely recognised as an authoritative work; the new edition includes chapters on chromatographic analysis and micro-biological techniques.' *(C) 363*

RIDDLE, E. H.

Monomeric acrylic esters. New York, Reinhold; London, C. & H., 1954. pp.vii,221, front., tables, diagrs., bibliog. 40s. or $5. 'An authoritative review of the manufacture, chemistry, reactions and uses of the monomeric acrylic esters by an acknowledged expert in this field.' *(C) 364*

GEOLOGY

NININGER, R. D.

Minerals for atomic energy: a guide to exploration for uranium, thorium and beryllium. New York, Van Nostrand; London, Macmillan, 1955. pp.xiii,367, front., plates, maps, tables, diagrs., bibliog. 55s. or $7.50. *(B) 365*

PALAEONTOLOGY

PALAEONTOGRAPHICAL SOCIETY

Directory of British fossiliferous localities. Burlington House, London, W.1, the Society, 1954. pp.xiv,268, bibliog. 7s. 6d. *(D) 366*

BIOLOGY

KEMPTHORNE, O., *and others, eds.*

Statistics and mathematics in biology; ed. by O. Kempthorne, T. A. Bancroft, J. W. Gowen and J. L. Lush. Iowa, Iowa State College Press, 1954. pp.632, tables, diagrs. $6.75. *(C) 367*

BIOCHEMISTRY

LEA, D. E.

Actions of radiations on living cells. 2nd ed. Cambridge, C.U.P., 1955. pp.xiv,416, plates, tables, diagrs. 30s. *(C) 368*

WHITE, P. R.

The cultivation of animal and plant cells. New York, Ronald Press, 1954. pp.xi,239, illus., diagrs. $6. *(B) 369*

ZOOLOGY

BEALE, G. H.

The genetics of *Paramecium aurelia.* Cambridge, C.U.P., 1954. pp.xi,179, tables, diagrs., bibliog. 12s. 6d. *Cambridge monographs in experimental biology series, ed. by M. Abercrombie and others, no. 2.* *(B) 370*

BOURLIÈRE, F.

The natural history of mammals; trans. from the French by H. M. Parshley. Harrap, 1955. pp.xxi,363; illus., plates, maps, tables, diagrs., bibliog. 21s. *(A) 371*

CLARKE, G. L.

Elements of ecology. New York, Wiley; London, C. & H., 1954. pp.xiv,534, illus., maps. $7.50 or 60s. *Woods Hole Oceanographic Institute, contribution no. 704.* *(B) 372*

FORD, E. B.

Moths: with 77 photographs in colour, 71 photographs in black and white by S. Beaufoy. Collins, 1955. pp.xix,266, plates, maps, tables, diagrs., bibliog. 35s. *New naturalist series, ed. by J. Fisher and others.* *(A) 373*

HORSFALL, W. R.

Mosquitoes: their bionomics and relation to disease. New York, Ronald Press, 1955. pp.viii,723. $16. *(C) 374*

PHARMACY

EVERS, N., *and* **SMITH, W.**

The analysis of drugs and chemicals. New ed. Griffin, 1955. pp.xii,546, tables, diagrs. 60s. 'Known for many years as a standard textbook, and now entirely re-written.' *(C) 375*

ENGINEERING

[See *361*]

MECHANICAL

COMPRESSED AIR AND GAS INSTITUTE

Compressed air handbook: a reference book on all phases of industrial air and gas compressors and compressed-air-powered portable tools and rock drills used by industry. 2nd ed. New York, London, McG.-H., 1954. pp.[419], illus., tables, diagrs. 57s. 6d. or $8 *(C) 376*

ELECTRICAL

BOULDING, R. S. H.

Radar pocket book: a compendium of useful data for engineers and operators concerned in the construction, installation and use of radar equipment. Newnes, 1955. pp.vii,176, tables, diagrs. 15s. *(C) 377*

MOLLOY, E., *ed.*

Electrical pocket book. 13th ed. Newnes, 1955. pp.viii,408, illus., tables, diagrs. 8s. 6d. *(B) 378*

INTERNAL COMBUSTION

BROWNING, B. E.

The Villiers engine: a practical guide covering all models. 4th ed. Pearson, 1955. pp.viii,236, illus., tables, diagrs. 6s. *Motor cycle maintenance and repair series, ed. by J. Earney.* *(B) 379*

COX, *Sir* **H. R.,** *ed.*

Gas turbine principles and practice. Newnes, 1955. pp.xii,958, illus., tables, diagrs., refs. 90s. *(C) 380*

CIVIL

CEMENT AND CONCRETE ASSOCIATION

Proceedings of a symposium on concrete shell roof construction, 2–4 July, 1952. The Association, 1954. pp.258, illus. 30s. *(B) 381*

SEELYE, E. E.

Data book for engineers. Vol. 3: Field practice. 2nd ed. New York, Wiley; London, C. & H., 1954. pp.xvii,394, illus., tables, diagrs. $7.50 or 60s. *(B) 382*

HYDRAULIC

LELIAVSKY, S.

Irrigation and hydraulic design: Vol. 1, General principles of hydraulic design. C. & H., 1955. pp.xiii,492, plates, illus., tables, diagrs., bibliogs. 126s. 'An outstanding book of reference and a lucid exposition of the achievements of prominent workers in the field.' *(B) 383*

AUTOMOBILE

[See *421*]

AERONAUTICAL

HIGH-SPEED aerodynamics and jet propulsion: Vol. 6: General theory of high-speed aerodynamics; ed. by W. R. Sears. O.U.P., 1955. pp.xiv,758, tables, diagrs., bibliog. 100s. *(C) 384*

HIGH-SPEED aerodynamics and jet propulsion: Vol. 9: physical measurements in gas dynamics and combustion; Part 1, ed. by R. W. Ladenburg; Part 2, ed. by B. Lewis, R. N. Pease and H. S. Taylor. O.U.P., 1955. pp.xvi,578, illus., tables, diagrs. 84s. *(C) 385*

WARD, G. N.

Linearized theory of steady high-speed flow. Cambridge, C.U.P., 1955. pp.xv,243, tables, diagrs., bibliog. 30s. *Cambridge monographs on mechanics and applied mathematics, ed. by G. K. Batchelor and H. Bondi.* *(C) 386*

ASTRONAUTICS

BURGESS, E.

Frontier to space; with a foreword by Sir H. Spencer Jones. C. & H., 1955. pp.xvi,174, front., plates, diagrs., tables, bibliogs. 21s. *(B) 387*

AGRICULTURE

MACHINERY

SOUTHWELL, P. H.

Engineering in agriculture. Temple Press, 1955. pp.xii,259, tables, diagrs. 30s. *(B) 388*

SOILS

COOMBES, R. H.

Soil warming by electricity. Cassell, 1955. pp.xi,116, plates. 10s. 6d. *(A) 389*

PESTS

WILLIS, S. J.

Weed control in farm and garden. Vinton, 1954. pp.184, plates, illus., tables, diagrs. 8s. 6d. *Agricultural and horticultural students series, ed. by J. Hunter Smith.* *(B) 390*

CROPS

TUKEY, H. B.

Plant regulators in agriculture. New York, Wiley; London, C. & H., 1955. pp.x,269, illus., tables, diagrs., bibliog. 44s. or $5.50. *(B) 391*

URQUHART, D. H.

Cocoa. L.G., 1955. pp.xix,230, plates, maps, tables, diagrs., bibliog. 35s. *Tropical agricultural series, ed. by Sir H. Tempany.* *(B) 392*

WEATHERWAX, P.

Indian corn in Old America. New York, London, etc., Macmillan, 1954. pp.ix,253, illus., diagrs. $7.50 or 52s. 6d. *(C) 393*

HORTICULTURE

BEDSON, F.

Successful begonia culture. London, Collingridge; New York, Transatlantic Arts, 1954. pp.84, front., illus. 15s or $2.75. *(B) 394*

EDWARDS, A.

Rock gardens: how to plan and plant them; with sections on the wall, paved, marsh and water gardens. 4th ed. Ward, Lock, 1955. pp.256, front., illus., tables, diagrs. 30s. *(B) 395*

HERTRICH, W.

Camellias in the Huntington Gardens: observations on their culture and behavior and descriptions of cultivars. San Marino, Calif., Huntington Library, 1954. pp.xii,380, plates, illus. $10. *(B) 396*

SEARLE, S. A., *ed.*

Plant climate and irrigation. Chichester, Chichester Press, 1954. pp.xi,154, illus., tables, diagrs., bibliog. 20s. *(B) 397*

PRINTING AND PUBLISHING

HILL, W. L.

Making known: the partnership of author, publisher and bookseller in the advancement of science and technology. Stratford Press, 1954. pp.34, table. 4s. 6d. *(B) 398*

[See also *403*]

TRANSPORT

KIDNER, R. W.

The Cambrian Railways. South Godstone (Sy.), Oakwood Press, 1954. pp.[2],45, plates, maps, tables, bibliog. 9s. 6d. *Oakwood library of railway history, no. 55.* *(A) 399*

NOCK, O. S.

Fifty years of Western express running. Bristol, Everard, 1954. pp.xi,353, front., plates, tables, diagrs. 25s. *(A) 400*

WILSON, G. L.

Transportation and communications: economics, management and regulation. New York, Appleton-Century, 1954. pp.xi,757, diagrs. $6. *(B) 401*

INDUSTRIAL ORGANIZATION

ASHFORD, F. C.

Designing for industry: some aspects of the product designer's work. Pitman, 1955. pp.x,222, illus., plates, diagrs., bibliogs. 27s. 6d. *(B) 402*

LONDON. Metropolitan Boroughs' (Organization and Methods) Committee

Offset-lithographic printing. The Committee, 1955. pp.32, tables, diagrs. 7s. 6d. *(B) 403*

MADDAN, M.

Profitable export marketing: with an appendix of world sources by P. Vigart. Newman Neame, 1955. pp.192, tables. 15s. 'A valuable introductory guide to overseas research.' *(B) 404*

PRINCETON UNIVERSITY. Department of Economics and Sociology. *Industrial Relations Section*

Centralization and decentralization in industrial relations; by H. Baker and R. R. France. Princeton, N.J., Princeton University Press, 1955. pp.219, tables. $4. *Research report series, no. 87.* *(C) 405*

PRINCETON UNIVERSITY. Department of Economics and Sociology. *Industrial Relations Section*

The influence of plant size on industrial relations; by S. Cleland. Princeton, N.J., Princeton University Press, 1955. pp.67, map, tables. $2 *(B) 406*

VERRY, H. R.

Some methods of printing and reproduction: an outline guide. Paris, Unesco, 1954. pp.71, illus., tables, diagrs. 2s., 100 fr. or 40c. *Educational studies and documents, no. XI.* *(A) 407*

CHEMICAL TECHNOLOGY

CEMENT & CONCRETE ASSOCIATION *and* **GREAT BRITAIN. Building Research Station**

Proceedings of the 3rd international symposium on the chemistry of cement. The Association, 1954. pp.xxxviii,870. 60s. *(B) 408*

METALLURGY

PAGONIS, G. A.

The light metals handbook. New York, Van Nostrand; London, Macmillan, 1955. 2v. Tables, diagrs. 63s. or $8.50. *(C) 409*

MANUFACTURES

FINISHING handbook and directory, 1955; ed. by I. S. Hallows. Sawell Publications, 1955. pp.484, illus., tables. 21s. *(B) 410*

METALS

[See *409*]

TEXTILES

OSTICK, E., *ed.*
The draper's encyclopaedia. National Trade Press, 1955. pp.xiv,523, illus., diagrs. 66s. (*B*) *411*

RUBBER

INSTITUTION OF THE RUBBER INDUSTRY
Annual report on the progress of rubber technology: Vol. 18, 1954; ed. by T. J. Drakeley. Cambridge, Heffer for the Institution, 1955. pp.ix,186, bibliog. 21s. (*C*) *412*

FINE MECHANISMS

TWYMAN, F.
Optical glassworking. Hilger & Watts, 1955. pp.viii,275, front., illus., tables, diagrs. 24s. 'A textbook that will long rank as authoritative.' (*B*) *413*

BUILDING

McKAY, W. B.
Building construction: three volumes in one. L.G., 1955. pp.viii,148, tables, diagrs. 45s. (*B*) *414*

WITHEY, M. O., *and* WASHA, G. W.
Materials of construction. 8th ed. New York, Wiley; London, C. & H., 1954. pp.vi,980, illus. $9 or 72s. (*B*) *415*

ARCHITECTURE

[See *419*]

PHOTOGRAPHY

EMANUEL, W. D.
Contaflex guide: how to use the new contaflex eye-level single lens reflex camera. Focal Press, 1955. pp.86, illus., tables, diagrs. 6s. 6d. (*B*) *416*

POLLOCK, D. B., *2nd Viscount Hanworth*
Amateur carbro colour prints. 3rd ed. Focal Press, 1955. pp.185, tables, diagrs. 12s. 6d. (*B*) *417*

SCHENCK, H. N., *and* KENDALL, H. W.
Underwater photography. Cambridge, Maryland, Cornell Maritime Press, 1954. pp.110, illus. $3.75. (*B*) *418*

BIOGRAPHY

HARVEY, J. H., *comp.*
English mediaeval architects: a biographical dictionary down to 1550, including master masons, carpenters, carvers, building contractors and others responsible for design; comp. by J. Harvey with contributions by A. Oswald. Batsford, 1954. pp.xxiv,412, tables. 75s. (*D*) *419*

FERMI, L.
Atoms in the family: my life with Enrico Fermi, designer of the first atomic pile. A. & U., 1955. pp.283, front., plates 18s. (*A*) *420*

WHO'S who in the motor industry: a biographical directory containing data of interest to all connected with the motor industry, including an alphabetical listing of those connected therewith. 2nd ed.; comp. and ed. by R. C. Bellamy and C. Andrews. Grimsby, Lincs., Roland C. Bellamy Publications, 1955. pp.883. 27s. 6d. (*D*) *421*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 31
Agriculture, 32
Architecture, 34
Astronautics, 31
Astronomy, 29
Automobile engineering, 31

Bibliography, 27
Biochemistry, 30
Biography, 34
Biology, 30
Building, 34

Chemical technology, 33
Chemistry, 29
Civil engineering, 31
Crops, 32

Directories and yearbooks, 27
Documentation, 27

Economics, 28
Education, 28
Electrical engineering, 31
Engineering, 30

Fine mechanisms, 34

Geology, 29

Horticulture, 32
Hydraulic engineering, 31

Industrial organization, 33
Internal combustion, 31

Librarianship, 27

Machinery, 32
Manufactures, 33
Mathematics, 28
Mechanical engineering, 30
Metallurgy, 33
Metals, 34
Museums, 27

Palaeontology. 29
Pests, 32
Pharmacy, 30
Photography, 34
Physics, 29
Printing and publishing, 32
Psychology, 27
Public administration, 28

Rubber, 34

Social sciences, 28
Soils, 32
Statistics, 28

Textiles, 34
Transport, 33

Zoology, 30

AUTHOR OR TITLE INDEX

Abercrombie, M., *ed.*, 370
Aller, L. H., 359
American Council on Education. Co-operative study of evaluation in general education, 353
Andrews, C., *ed.*, 421
Ashford, F. C., 402

Bagley, W. A., 340
Baker, H., 405
Bancroft, T. A., *ed.*, 367
Bartlett, M. S., 356
Batchelor, G. K., *ed.*, 386
Beale, G. H., 370
Bedson, F., 394
Bellamy, R. C., *ed.*, 421
Bondi, H., *ed.*, 386
Booth, A. D., 357
Boulding, R. S. H., 377
Bourlière, F., 371
Brown, A. J., 349
Browning, B. E., 379
Building Research Station, 408
Burgess, E., 387

Cement and Concrete Association, 381, 408
Chapman, B., 352
Clarke, G. L., 372
Cleland, S., 406
Compressed Air and Gas Institute, 376
Coombes, R. H., 389
Cox, *Sir* H. R., *ed.*, 380

Drakeley, T. J., *ed.*, 412

Earney, J., *ed.*, 379
Edwards, A., 395
Emanuel, W. D., 416
Evers, N., 375

Fermi, L., 420
Finishing handbook and directory, 1955, 410
Fisher, J., *ed.*, 373
Flugel, J. C., 346
Ford, E. B., 373
Ford, G., 341
Ford, P., 341
France, R. R., 405

Glover, E., 347
Gowen, J. W., *ed.*, 367
Great Britain. Building Research Station, 408
Green, S. L., 358

Hallows, I. S., *ed.*, 410
Harvey, J. H., *comp.*, 419
Hertrich, W., 396
High-speed aerodynamics and jet propulsion; vol. 6, 384
High-speed aerodynamics and jet propulsion; vol. 9, 385
Hill, W. L., 398
Hoel, P. G., 348
Horsfall, W. R., 374

Ingersoll, A. C., 360
Ingersoll, L. R., 360
Institution of the Rubber Industry, 412

Kempthorne, O., *ed.*, 367
Kendall, H. W., 418
Kidner, R. W., 399
Krishnamurti, J., 354

Ladenburg, R. W., *ed.*, 385
Lang, H. R., *ed.*, 362
Lea, D. E., 368
Leliavsky, S., 383
Lewis, B., *ed.*, 385
London. Metropolitan Boroughs' (Organization and Methods) Committee, 403
Lush, J. L., *ed.*, 367

McKay, W. B., 414
Maddan, M., 404
Mathematical Association. Teaching Committee, 355
Metropolitan Boroughs' (Organization and Methods) Committee, 403
Milton, R. F., *ed.*, 363
Molloy, E., *ed.*, 378
Museums and galleries in Great Britain and Northern Ireland, 345

Nock, O. S., 400
Nininger, R. D., 365

Ostick, E., *ed.*, 411

Pagonis, G. A., 409
Palaeontographical Society, 366
Parshley, H. M., *trans.*, 371
Pease, R. N., *ed.*, 385
Pollock, D. B., *2nd Viscount Hanworth*, 417
Princeton University. Department of Economics and Sociology. *Industrial Relations Section*, 405, 406

Riddle, E. H., 364
Ridenour, L. N., *ed.*, 361

Schenck, H. N., 418
Searle, S. A., *ed.*, 397
Sears, W. R., *ed.*, 384
Seelye, E. E., 382
Selwyn, E. W. H., 362
Smith, J. Hunter, *ed.*, 390
Smith, W., 375
Southwell, P. H., 388
Special Libraries Association. Financial Division, 342

Taube, M., 343
Tauber, M. F., 344
Taylor, H. S., *ed.*, 385
Tempany, *Sir* H., *ed.*, 392
Tukey, H. B., 391
Twyman, F., 413

Urquhart, D. H., 392

Verry, H. R., 407
Voskuil, W. H., 350

Ward, G. N., 386
Washa, G. W., 415
Water, W. A., *ed.*, 363
Weatherwax, P., 393
White, P. R., 369
Who's who in the motor industry, 421
Willis, S. J., 390
Wilson, G. L., 401
Withey, M. O., 415
Wootton, B., 351

Zobel, O. J., 360

WATERLOW & SONS LIMITED, LONDON & DUNSTABLE.

Vol 20, No 6, 1955
Not Received.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 7
JULY 1955
Nos. 506-590

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629 : 1950.

ASLIB BOOK-LIST

Volume 20 *Number 7* *July 1955*

SCIENTIFIC RESEARCH

WISE, J. K.

Patent law in the research laboratory. New York, Reinhold; London, C. & H., 1955. pp.[10],145. $2.95 or 24s. *Reinhold pilot books, no. 4.*
(B) 506

DOCUMENTATION

FLESCH, R.

How to make sense. New York, Harper; [London, Hamish Hamilton], 1954. pp.202. $2.48 or 22s. *(A) 507*

FLESCH, R., *and* **LASS, A. H.**

The way to write. 2nd ed. New York; [London], McG.-H., 1955. pp.470. $2.68 or 20s. 6d. *(B) 508*

SHERMAN, T. A.

Modern technical writing. New York, Prentice Hall; [London, Bailey & Swinfen], 1955. pp.xii,424, tables, diagrs. $6.35. *(B) 509*

BIBLIOGRAPHY

BESTERMAN, T.

A world bibliography of bibliographies and of bibliographical catalogues, calendars, abstracts, digests, indexes, and the like. 3rd and final ed., rev. and greatly enl. throughout. Vol. 1, A-E. Geneva, Societas Bibliographica, 1955. pp.xxviii,1326 col. 150s. *(D) 510*

FORRESTER, G.

Occupational literature; an annotated bibliography. New York, H. W. Wilson, 1954. pp.467. $5. *(D) 511*

GEBBIE PRESS

House magazine directory; a public relations and free-lance guide to the nation's leading house magazines. 1954-1955 ed New York, Gebbie Press, 1954. pp.ii,272, illus., facsims. $19.95. *(D) 512*

LEESON, I.

A bibliography of bibliographies of the South Pacific; published under the auspices of the South Pacific Commission. London, Melbourne, [etc.], O.U.P., 1954. pp.x,61. 15s. *(D) 513*

McGAHON, A., *ed.*

Irish newspaper and allied trades directory. Dublin, Harpers, 1955. pp.82, tables. 4s. 6d. *(D) 514*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION

Index translationum: international bibliography of translations, 6. Paris, Unesco; [London, H.M.S.O.], 1955. pp.565, table. 55s., 2600 fr., or $10.
(D) 515

UNITED STATES. Library of Congress. *Reference Department*
Aeronautical sciences and aviation in the Soviet Union: a bibliography; comp. by B. Kucherov. Washington, the Library, 1955. pp.xx,274. $2. (*D*) *516*

LIBRARIANSHIP

ASSOCIATION OF ASSISTANT LIBRARIANS
A general introduction to the examinations and methods of study, by A. J. Walford, with additional chapters by A. G. S. Enser and J. C. Harrison. The Association, 1955. pp.80. 4s. 6d. (3s. 6d. to members). *The A.A.L. guides to the Library Association examinations under the general editorship of A. J. Walford.* (*B*) *517*

ASSOCIATION OF ASSISTANT LIBRARIANS
The Registration Examination. The Association, 1955. pp.88, tables. 5s. 6d. (4s. 6d. to members). *The A.A.L. guides to the Library Association examinations under the general editorship of A. J. Walford.* (*B*) *518*

BRITISH STANDARDS INSTITUTION
Universal decimal classification. Complete English ed., 4th international ed. 622 Mining and mineral dressing; 623 Military and naval engineering, ordnance, arms production. The Institution, 1955. pp.52, tables. 15s. *B.S. 1000: F.I.D. publication no. 179.* (*D*) *519*

COLUMBIA UNIVERSITY. School of Library Service
Who's who in library service; a biographical directory of professional librarians of the United States and Canada. 3rd ed. by D. E. Cole. New York, Grolier Society, 1955. pp.xxiii,545. $6. (*D*) *520*

RANGANATHAN, S. R.
Heading and canons; a comparative study of five catalogue codes. Madras, S. Viswanathan; London, Blunt, 1955. pp.298. Rs. 10 or 24s. (*C*) *521*

TENNESSEE. University. *Division of University Extension*
University of Tennessee library lectures numbers four to six, nineteen hundred fifty-two to fifty-four [sic]; ed. by K. L. Montague. Knoxville, the University, 1954. pp.vii,46. (Price not given.) *University of Tennessee Record, vol. 30, no. 6.* (*B*) *522*

DIRECTORIES AND YEARBOOKS

BRADFORD, E. S.
Bradford's survey and directory of marketing research agencies in the United States and the world. 6th ed. 1954-1955. New Rochelle, N.Y., Bradford's Directory of Marketing Research Agencies 1954. pp.119. $6.50. (*D*) *523*

SOCIAL SCIENCES

STATISTICS

[See *531*]

EDUCATION

ARMYTAGE, W. H. G.
Civic universities: aspects of a British tradition. Benn, 1955. pp.328, front., plates, bibliog. 30s. (*B*) *524*

CHAPMAN, A. W.
The story of a modern university: a history of the University of Sheffield. O.U.P., for the University of Sheffield, 1955. pp.xvii,551, front., illus., plates, tables, diagrs. 50s. (*B*) *525*

:UMMING, I.

Helvetius: his life and place in the history of educational thought; with an introduction by N. Hans. Routledge and K. Paul, 1955. pp.xi,260, front., plate, bibliog. 25s. *International library of sociology and social reconstruction, ed. by W. J. H. Sprott.* (*B*) *526*

IATIONAL INSTITUTE OF ADULT EDUCATION

Liberal education in a technical age: a survey of the relationship of vocational and non-vocational further education and training. M. Parrish, for the Institute, 1955. pp.128, tables. 6s. (*B*) *527*

VEST, M. P.

Learning to read a foreign language, and other essays on language-teaching. L.G., 1955. pp.vii,100. 5s. (*B*) *528*

[See also *587*]

DICTIONARIES

:LASON, W. E., *ed.*

Elsevier's dictionary of television, radar and antennas in six languages English/American, French, Spanish, Italian, Dutch and German . . . arranged on an English alphabetical base. Amsterdam, Elsevier; [London, Cleaver-Hume], 1955. pp.[8],760. 120s. *Elsevier's multilingual dictionaries.* (*D*) *529*

.AYTON, C. W. T.

Dictionary of nautical words and terms: 8,000 definitions in navigation, seamanship, rigging, meteorology, astronomy, naval architecture, average, ship economics, hydrography, cargo stowage, marine engineering, ice terminology, buoyage, etc. Glasgow, Brown & Ferguson, 1955. pp.[3],413. 25s. (*D*) *530*

MATHEMATICS

IOGBEN, L. T.

Chance and choice by cardpack and chessboard: an introduction to probability in practice by visual aids: Vol. 2. Parrish, 1955. pp.418-917, tables, diagrs. 70s. (*A*) *531*

IcLACHLAN, N. W.

Bessel functions for engineers. 2nd ed. Oxford, Clarendon Press, 1955. pp.xii,239, tables, diagrs., bibliog. 35s. *Oxford engineering science series, ed. by E. B. Moullin and others.* (*C*) *532*

:AWYER, W. W.

Prelude to mathematics. Harmondsworth, Penguin Books, 1955. pp.214, tables, diagrs. 2s. 6d. *Pelican series, A.327.* (*A*) *533*

ASTRONOMY

:ALL, *Sir* R. S.

A popular guide to the heavens. 5th ed., edited by E. A. Beet. G. Philip, 1955. pp.xii,85, front., plates, tables, diagrs. 30s. (*A*) *534*

NAVIGATION

:ONNENBERG, G. J.

Radar and electronic navigation. 2nd ed. Newnes, 1955. pp.viii,288, illus., tables, diagrs. 31s. 6d. (*B*) *535*

PHYSICS

:LARK, W.

Applied X-rays. New York, London, McG.-H., 1955. pp.viii,842, illus., diagrs. 89s. 6d. or $12.50. *International series in pure and applied physics.* (*C*) *536*

FRETTER, W. B.

Introduction to experimental physics. New York, Prentice-Hall; London & Glasgow, Blackie, 1955. pp.viii,349, tables, diagrs., bibliogs. 35s. or $9. *Prentice-Hall physics series, ed. by D. H. Menzel.* (*B*) *537*

FRISCH, O. R., *ed.*

Progress in nuclear physics; Vol. 4. Pergamon Press, 1955. pp.viii,379, plates, illus., tables, diagrs., bibliogs. 70s. *Progress series.* (*C*) *538*

LINFOOT, E. H.

Recent advances in optics. Oxford, Clarendon Press, 1955. pp.x,286, plates, tables, diagrs., bibliog. 50s. *International series of monographs on physics, edited by N. F. Mott and E. C. Bullard.* (*C*) *539*

NORRIS, P. W., *and* **LEGGE, W. S.**

Dynamics of a particle introduced via the calculus; being chapters I–IV of 'Mechanics via the calculus.' Cleaver-Hume Press, 1955. pp.80, tables, diagrs. 4s. (*B*) *540*

[See also *576*, *534*]

CHEMISTRY

MILES, F. D.

Cellulose nitrate: the physical chemistry of nitro-cellulose, its formation and use. Edinburgh, Oliver & Boyd for Imperial Chemical Industries Ltd., 1955. pp.xiii,422, plates, tables, diagrs. 45s. (*C*) *541*

WOLFROM, M. L., *and others, eds.*

Advances in carbohydrate chemistry: Vol. 9; ed. by M. L. Wolfrom, R. S. V. Tipson and E. L. Hirst. New York, Academic Press, 1954. pp.xviii,426, diagrs. $10.50. (*C*) *542*

MINERALOGY AND CRYSTALLOGRAPHY

[See *536*]

GEOLOGY

HOBSON, G. D.

Some fundamentals of petroleum geology. O.U.P., 1954. pp.x,139, illus., tables, diagrs., bibliog. 18s. (*C*) *543*

METEOROLOGY

AUBERT DE LA RUE, E.

Man and the winds: trans. [from the French] by M. E. Thompson. Hutchinson, 1955. pp.206, plates, tables, bibliog. 18s. *Scientific and technical publications.* (*A*) *544*

SUTTON, O. G.

Atmospheric turbulence. 2nd ed. Methuen, 1955. pp.viii,111, tables, diagrs., bibliogs. 8s. 6d. *Methuen's monographs on physical subjects, ed. by B. L. Worsnop.* (*B*/*C*) *545*

BIOLOGY

HARRIS, R. J. C., *ed.*

Biological applications of freezing and drying. New York, Academic Press; London, Academic Books, 1954. pp.415, illus., diagrs. $10 or 80s. (*C*) *546*

SOCIETY FOR GENERAL MICROBIOLOGY. Symposium, 5th, London, 1955

Mechanism of microbial pathogenicity; 5th symposium of the Society for General Microbiology, held at the Royal Institution, London, April 1955; ed. by J. W. Howie and A. J. O'Hea. Cambridge, C.U.P. for the Society, 1955. pp.x,333, tables, diagrs., bibliog. 25s. (*C*) *547*

BIOCHEMISTRY

BRACKEN, A.

The chemistry of micro-organisms. Pitman, 1955. pp.vii,343, tables, bibliogs. 30s. *(B) 548*

BUTLER, J. A. V., *and* **RANDALL, J. T.,** *eds.*

Progress in biophysics and biophysical chemistry: Vol. 5. London, New York, Pergamon Press, 1955. pp.viii,231, plates, tables, diagrs., bibliogs. 55s. or $8.50. *(C) 549*

KENT, P. W., *and* **WHITEHOUSE, M. W.**

Biochemistry of aminosugars. Butterworth, 1955. pp.ix,311, front., tables, diagrs., bibliog. 40s. *(C) 550*

BOTANY

HILL, R., *and* **WHITTINGHAM, C. P.**

Photosynthesis. Methuen, 1955. pp.vii,165, tables, diagrs., bibliog. 8s. 6d. *Methuen's monographs on biochemical subjects, ed. by Sir R. Peters and F. G. Young.* *(B) 551*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANISATION. Middle East Science Co-operation Office

Symposium on the protection and conservation of nature in the Near East; held at the Palais de l'Unesco, Beyrouth, 3rd-8th June, 1954: organized by the Societe Libanaise des Amis des Arbres and the Middle East Science Co-operation Office. Cairo, Unesco, 1955. pp.171, bibliog. Gratis to interested institutions. *(C) 552*

ZOOLOGY

SAVORY, T. H.

The world of small animals. University of London Press, 1955. pp.160, plates, illus., tables, diagrs., bibliog. 15s. *(A) 553*

VETERINARY SCIENCE

TAYLOR, J. A.

Regional and applied anatomy of the domestic animals: Part 1, Head and neck. Oliver & Boyd, 1955. pp.ix,169, illus., diagrs. 25s. *(B) 554*

ENGINEERING

THIRLWELL, J. B.

Elementary engineering mechanics. Macdonald, 1955. pp.x,126, diagrs. 10s. 6d. *(B) 555*

[See also *532*]

Testing Materials

DAVIS, H. E., *and others*

The testing and inspection of engineering materials, by H. E. Davis, G. E. Troxell and C. T. Wiskocil. 2nd ed. New York, London, McG.-H., 1955. pp.xv,431, illus., tables, diagrs., bibliog. 49s. or $6.50. *McGraw-Hill series in civil engineering, ed. by H. E. Davis.* *(B/C) 556*

NATIONAL PHYSICAL LABORATORY

Engineering dimensional metrology: Proceedings of a symposium held at the National Physical Laboratory October 21–24, 1953. H.M.S.O., 1955. 2v. Illus., tables, diagrs., refs. 45s. 'Typescript.' *(B) 557*

MECHANICAL

HUDSON, W. G.

Conveyors and related equipment. 3rd ed New York, Wiley; London, C. & H., 1955. pp.vii,524, illus., tables, diagrs. $9 or 72s. *(B) 558*

ELECTRICAL

BINNEY, E. A.

Electric traction engineering: an introduction. Cleaver-Hume Press, 1955. pp.224, front., illus., tables, diagrs. 15s. *Cleaver-Hume electrical series, no. 10: gen. ed., H. Cotton.* *(B) 559*

SAY, M. G.

Electro-technology: basic theory and circuit calculations for electrical engineers. Newnes, 1955. pp.167, tables, diagrs. 10s. 6d. *(B) 560*

WORKSHOP PRACTICE

CHAPMAN, W. A. J.

Workshop technology: Part 1, An introductory course. 2nd ed. E. Arnold, 1955. pp.viii,309, illus., tables, diagrs. 12s. 6d. *(B) 561*

CIVIL

BILLIG, K.

Precast concrete. Macmillan, 1955. pp.xvi,341, illus., plans, tables, diagrs., bibliog. 32s. *(B) 562*

HAMMOND, R.

Foundation engineering: a survey of modern practice in the solution of foundation problems of all kinds; with an introduction by Sir F. A. Whitaker. Odhams Press, 1955. pp.192, front., illus., diagrs., refs. 21s. *(C) 563*

SANITARY

TEMPLE, F. C.

Small sewage works. 2nd rev. ed. Technical Press, 1955. pp.x,61, illus., diagrs. 9s. 6d. *(B) 564*

AERONAUTICAL

[See *516*]

AGRICULTURE

UNITED STATES. Department of Agriculture

Marketing. Washington, U.S.G.P.O., [1955]. pp.xiv,506, illus., tables, diagrs. $1.75. *The yearbook of agriculture, 1954.* *(D) 565*

MACHINERY

HENDERSON, S. M., *and* **PERRY, R. L.**

Agricultural process engineering. New York, Wiley, 1955. pp.402, illus., diagrs. $8.50. *Ferguson Foundation agricultural engineering series.* *(C) 566*

FERTILIZERS

COLLINGS, G. H.

Commercial fertilizers: their sources and use. 5th ed. New York, London, McG.-H., 1955. pp.xiv, 617, front., illus., tables, diagrs., bibliog. 60s. or $8. *(B) 567*

CROPS

WILSON, H. K.

Grain crops. 2nd ed. New York, London, McG.-H., 1955. pp.ix,396, illus., tables, bibliog. 49s. or $6.50. *McGraw-Hill publications in the agricultural sciences, ed. by R. A. Brink.* *(B) 568*

GRIST, D. H.
Rice. 2nd ed. L.G., 1955. pp.xix,333, front., illus., plates, maps, tables, diagrs., bibliog. 35s. *Tropical agriculture series, ed. by Sir H. Tempany.* (*B*) *569*

McKAY, R.
Potato diseases. Dublin, Irish Potato Marketing Co., 1955. pp.x,126, plates. 21s. (*B*) *570*

PRINTING AND PUBLISHING

BYRD, W., Press Inc.
Mathematics in type, [by W. W. Tompkins]. Richmond, Va., William Byrd Press, 1954. pp.xii,58, illus., tables, diagrs. $3. (*B*) *571*

A DIRECTORY of dealers in secondhand and antiquarian books in the British Isles, 1955–56. Rev. and enl. Sheppard Press, 1955. pp.180, illus. 12s. 6d. 'Cover title: Dealers in books.' (*D*) *572*

LATIMER, H. C.
Survey of lithography. New York, Lithographic Technical Foundation, 1954. pp.4,99, illus., tables, diagrs. $4. *Special subjects texts, 407.* 'Revision of original text published in 1945.' (*B*) *573*

TRANSPORT

[See *559*]

INDUSTRIAL ORGANIZATION

COMMISSION ON HUMAN RESOURCES AND ADVANCED TRAINING
America's resources of specialized talent: a current appraisal and a look ahead; prepared by D. Wolfle, Director. New York, Harper; [London, Hamish Hamilton], 1954. pp.xix,332, tables, diagrs. $4 or 32s. (*B*) *574*

FARR, M.
Design in British industry: a mid-century survey; with a foreword and postscript by N. Pevsner. Cambridge, C.U.P., 1955. pp.xxxviii,333, plates. 60s. (*B*) *575*

CHEMICAL TECHNOLOGY

INSTITUTE OF PHYSICS. Conference, 1954, Nottingham University
The physics of particle size analysis: a conference arranged by the Institute of Physics and held in the University of Nottingham from 6th to 9th April, 1954. The Institute, 1954. pp.vi,218, illus., tables, diagrs. 35s. *British Journal of Applied Physics. Supplements series, no. 3.* (*C*) *576*

PETERS, M. S.
Elementary chemical engineering. New York, London, McG.-H., 1954. pp.ix,322, illus., tables, diagrs. 46s. 6d. or $6. *McGraw-Hill series in chemical engineering, ed. by S. D. Kirkpatrick.* (*B*) *577*

ROSIN, J., *and* **EASTMAN, M.**
The road to abundance; with an introduction by Lord Boyd Orr. Rider, 1955. pp.144. 12s. 6d. (*A*) *578*

FUEL

SCIENCE of petroleum: Vol. 5, part 3; Refinery products; general editors, B. T. Brooks, A. E. Dunstan. O.U.P., 1955. pp.9,397, plates, tables, diagrs., bibliog. 126s. (*C*) *579*

Dyeing and Bleaching

HALL, A. J.

A handbook of textile dyeing and printing. National Trade Press, 1955. pp.vii,216, illus., tables, diagrs. 21s. *(B) 580*

Metallurgy

COTTRELL, A. H.

Theoretical structural metallurgy. 2nd ed. E. Arnold, 1955. pp.viii,251, tables, diagrs., bibliogs. 25s. 'An admirable introduction to the modern science of metals.' *(B) 581*

METALLURGICAL PROGRESS 2: a second series of critical reviews. L. Cassier, for 'Iron and Steel,' 1955. pp.68, refs. 4s. 6d. 'Reprinted from *Iron and Steel.*' *(C) 582*

SULLY, A. H.

Manganese. Butterworth, 1955. pp.xiv,305, illus., tables, diagrs., bibliog. 40s. *Metallurgy of the rarer metals, no. 3; gen. ed., H. M. Finniston. (B) 583*

MANUFACTURES

Textiles

HANTON, W. A.

Mechanics for textile students: an introduction to the study of mechanics for textile students. Manchester, Textile Institute, 1954. pp.xi,336, diagrs. 25s. *(B) 584*

BUILDING

MACEY, F. W.

Specifications in detail. 5th ed. rev. and enlarged by D. Brooke and S. Williamson. Technical Press, 1955. pp.viii,712, illus., tables, diagrs. 70s. *(D) 585*

McSWAN, A.

Roofing and stairbuilding with the steel square. 2nd ed. Technical Press, 1955. pp.79, diagrs. 9s. 6d. *(B) 586*

ARCHITECTURE

EDUCATION

School construction: a reprint of the articles which appeared in the school construction section of 'Education' (official organ of the Association of Education Committees). Councils & Education Press, 1955. pp.[3],111, illus., plans, tables. 10s. 6d. *(B) 587*

PHOTOGRAPHY

The BRITISH journal photographic almanac and photographer's daily companion, with which is incorporated 'The year book of photography and amateurs' guide' and the 'Photographic annual': 1955; ed. by A. J. Dalladay. Greenwood, 1955. pp.638, illus., tables, diagrs., bibliog. 7s. 6d. *(D) 588*

LOBEL, L., *and* **DUBOIS, M.**

Sensitometry: the technique of measuring photographic materials; trans. and adapted by E. F. Teal from the French edition 'Manuel de sensitometrie.' Focal Press, 1955. pp.261, plates, tables, diagrs., bibliog. 25s. *Manual of phototechnique series. (B/C) 589*

BIOGRAPHY

WATERTON, C.

Letters of Charles Waterton of Walton Hall, near Wakefield, naturalist, taxidermist and author of 'Wanderings in South America' and 'Essays on natural history'; ed. by R. A. Irwin. Rockliff, 1955. pp.xi,159, front., plates, table, bibliog. 18s. *(A) 590*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 48
Agriculture, 48
Architecture, 50
Astronomy, 45

Bibliography, 43
Biochemistry, 47
Biography, 50
Biology, 46
Botany, 47
Building, 50

Chemical technology, 49
Chemistry, 46
Civil engineering, 48
Crops, 48

Dictionaries, 45
Directories and yearbooks, 44
Documentation, 43
Dyeing and bleaching, 50

Education, 44
Electrical engineering, 48
Engineering, 47

Fertilizers, 48
Fuel technology, 49

Geology, 46

Industrial organization, 49

Librarianship, 44

Machinery, 48
Manufactures, 50
Mathematics, 45
Mechanical engineering, 48
Metallurgy, 50
Meteorology, 46
Mineralogy and crystallography, 46

Navigation, 45

Photography, 50
Physics, 45
Printing and publishing, 49

Sanitary, 48
Scientific research. 43
Social sciences, 44
Statistics, 44

Testing materials, 47
Textiles, 50
Transport, 49

Veterinary science, 47

Workshop practice, 48

Zoology, 47

AUTHOR OR TITLE INDEX

Armytage, W. H. G., 524
Association of Assistant Librarians, 517, 518
Aubert De La Rue, E., 544

Ball, *Sir* R. S., 534
Beet, E. A., *ed.*, 534
Besterman, T., 510
Billig, K., 562
Binney, E. A., 559
Bracken, A., 548
Bradford, E. S., 523
Brink, R. A., *ed.*, 568
British journal photographic almanac and photographer's daily companion, 588
British Standards Institution, 519
Brooke, D., *ed.*, 585
Brooks, B. T., *ed.*, 579
Bullard, E. C., *ed.*, 539
Butler, J. A. V., *ed.*, 549
Byrd, W., Press Inc., 571

Chapman, A. W., 525
Chapman, W. A. J., 561
Clark, W., 536
Clason, W. E., *ed.*, 529
Cole, D. E., *ed.*, 520
Collings, G. H., 567
Columbia University. School of Library Service, 520
Commission on human resources and advanced training, 574
Cotton, H., *ed.*, 559
Cottrell, A. H., 581
Cumming, I., 526

Dalladay, A. J., *ed.*, 588
Davis, H. E., 556
De La Rue, E. Aubert, 544
Directory of dealers in secondhand and antiquarian books in the British Isles, 572
Dubois, M., 589
Dunstan, A. E., *ed.*, 579

Eastman, M., 578
'Education,' 587

Farr, M., 575
Finniston, H. M., 583
Flesch, R., 507, 508
Forrester, G., 511
Fretter, W. B., 537
Frisch, O. R., *ed.*, 538

Gebbie Press, 512
Grist, D. H., 569

Hall, A. J., 580
Hammond, R., 563
Hanton, W. A., 584
Harris, R. J. C., *ed.*, 546
Henderson, S. M., 566
Hill, R., 551
Hirst, E. L., *ed.*, 542
Hobson, G. D., 543
Hogben, L. T., 531
Howie, J. W., *ed.*, 547
Hudson, W. G., 558

Institute of Physics, Conference, 1954, Nottingham University, 576
Irwin, R. A., *ed.*, 590

Kent, P. W., 550
Kirkpatrick, S. D., *ed.*, 577
Kucherov, B., *comp.*, 516

Lass, A. H., 508
Latimer, H. C., 573
Layton, C. W. T., 530
Leeson, I., 513
Legge, W. S., 540
Library of Congress. Reference Department, 516
Linfoot, E. H., 539
Lobel, L., 589

Macey, F. W., 585
McGahon, A., *ed.*, 514
McKay, R., 570
McLachlan, N. W., 532
McSwan, A., 586
Menzel, D. H., *ed.*, 537
Metallurgical progress no. 2, 582
Middle East Science Co-operation Office, 552
Miles, F. D., 541
Montague, K. L., *ed.*, 522
Mott, N. F., *ed.*, 532
Moullin, E. B., *ed.*, 532
National Institute of Adult Education, 527
National Physical Laboratory, 557
Norris, P. W., 540

O'Hea, A. J., *ed.*, 547

Perry, R. L., 566
Peters, M. S., 577
Peters, *Sir* R., *ed.*, 551

Randall, J. T., *ed.*, 549
Ranganathan, S. R., 521
Rosin, J., 578

Savory, T. H., 553
Sawyer, W. W., 533
Say, M. G., 560
Science of petroleum: Vol. 5, part 3, 579
Sherman, T. A., 509
Society for General Microbiology, Symposium, 5th, London, 1955, 547
Sonnenberg, G. J., 535
Sprott, W. J. H., *ed.*, 526
Sully, A. H., 583
Sutton, O. G., 545

Taylor, J. A., 554
Teal, E. F., *trans.*, 589
Tempany, *Sir* H., *ed.*, 569
Temple, F. C., 564
Tennessee. University. Division of University Extension, 522
Thirlwell, J. B., 555
Thompson, M. E., *trans.*, 544
Tipson, R. S. V., *ed.*, 542
Tompkins, W. W., 571
Troxell, G. E., 556

United Nations Educational, Scientific and Cultural Organization, 515
United Nations Educational, Scientific and Cultural Organization. Middle East Science Co-operation Office, 552
United States. Department of Agriculture, 565
United States Library of Congress. Reference Department, 51

Walford, A. J., *ed.*, 517, 518
Waterton, C., 590
West, M. P., 528
Whitehouse, M. W., 550
Whittingham, C. P., 551
Williamson, S., *ed.*, 585
Wilson, H. K., 568
Wise, J. K., 506
Wiskocil, C. T., 556
Wolfle, D., *ed.*, 574
Wolfrom, M. L., *ed.*, 542
Worsnop, B. L., *ed.*, 545
Young, F. G., *ed.*, 551

WATPRIOW & SONS LIMITED, LONDON & DUNSTABLE.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 8
AUGUST 1955
Nos. 591-675

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629: 1950.

ASLIB BOOK-LIST

Volume 20 *Number 8* *August 1955*

GENERAL SCIENCE

CALDER, R.

Science makes sense. A. & U., 1955. pp.192, bibliog. 12s. 6d. *(A) 591*

DOCUMENTATION

BAKER, C.

Technical publications: their purpose, preparation and production. C. & H., 1955. pp.xiii,302, illus., tables, diagrs. 36s. *(B) 592*

BALL, J., *and* **WILLIAMS, C. B.**

Report writing. New York, Ronald P., 1955. pp.xi,407, illus., tables, diagrs. $4.75. *(B) 593*

ORGANISATION FOR EUROPEAN ECONOMIC CO-OPERATION. European Productivity Administration. *Technical Information Section*

Report on the first meeting of technical information officers held at the Department for Scientific and Industrial Research, London, . . . 1954. Paris, O.E.E.C.: [London, H.M.S.O.], 1955. pp.72. 2s. 'Cover title: Technical information services in Europe.' *(B) 594*

BIBLIOGRAPHY

AMERICAN ASSOCIATION OF COLLEGIATE REGISTRARS AND ADMISSIONS OFFICERS. Committee on Special Projects

Machine equipment for efficient office operation. Lafayette, Indiana, the Association, 1954. pp.[6],91, tables. $1. 'Obtainable from N. M. Parkhurst, Assistant Registrar, Purdue University, Lafayette, Indiana.' *(D) 595*

BATTELLE MEMORIAL INSTITUTE

Abstracts of the literature on semi-conducting and luminescent materials and their applications. 1953 issue. New York, Wiley; London, C. & H., 1955. pp.x,169. $5 or 40s. *(D) 596*

HASKELL, D. C.

A tentative check-list of early European railway literature, 1831–1848; with a prefatory note by A. H. Cole. Boston, Mass., Baker Library, Harvard Graduate School of Business Administration, 1955. pp.[7],192. $5. *(D) 597*

KENT. *County. Education Committee*

Catalogue of recommended books and publications for secondary schools (grammar, technical and modern): Geography. New ed. Maidstone, County Education Offices, 1955. pp.33, bibliog. 2s. 9d. *(D) 598*

KENT. *County. Education Committee*

Catalogue of recommended books and publications for secondary schools (grammar, technical and modern): History. New ed. Maidstone, County Education Offices, 1955. pp.40. 3s. 6d. *(D) 599*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY. Research Laboratory of Electronics

Bibliography on physical electronics; prepared by W. B. Nottingham and staff. Cambridge, Mass., the Laboratory, 1954. pp.ix,428. $8.50. 'Distributed by Addison-Wesley Publishing Co. Inc.' (*D*) *600*

MERRIAM, A. P., *and* **BENFORD, R. J.**

A bibliography of jazz, by A. P. Merriam, with the assistance of R. J. Benford. Philadelphia, American Folklore Society, 1954. pp.xv,145. $6. (*D*) *601*

ROYAL INSTITUTION OF CHARTERED SURVEYORS

Lending Library catalogue. 19th ed. The Institution, 1955. pp.vi,90. 2s. (*D*) *602*

UNITED NATIONS. Department of Public Information. *Sales and Circulation Section*

Ten years of United Nations publications, 1954 to 1955; a complete catalogue. New York, United Nations; [London, H.M.S.O.], 1955. pp.viii,271. 50c. or 2s. (*D*) *603*

UNITED NATIONS

A bibliography of the charter of the United Nations. [New York], United Nations; [London, H.M.S.O.], 1955. pp.viii,128. $1.25 or 9s. *United Nations Headquarters Library bibliographical series no. 3.* (*D*) *604*

UNITED STATES. Geological Survey

Annotated bibliography of the bauxite deposits of the world, by E. C. Fischer. Washington, U.S. Government Printing Office; [London, H.M.S.O.], 1955. pp.221, map. $1 or 8s. 6d. (*D*) *605*

UNITED STATES. Library of Congress

Pictorial Americana: a select list of photographic negatives in the Print and Photographs Division of the Library of Congress; comp. by M. Kaplan, ed. by C. G. Lahood. Washington, the Library, 1955. pp.[6],68. 25c. (*D*) *606*

LIBRARIANSHIP

HEWITT, A. R.

A summary of public library law in England and Wales, Scotland and Northern Ireland, with questions and answers. 3rd ed. (rev.). London, Association of Assistant Librarians, 1955. pp.88. 6s. (5s. to members). (*B*) *607*

LAMB, J. P.

Commercial and technical libraries; with a preface by Sir W. Benton Jones. A. & U. and the Library Association, 1955. pp.315, front., plates. 21s. *Library Association series of library manuals.* (*B*) *608*

The LIBRARIES, museums and art galleries year book, incorporating The librarians' guide; advisory ed. L. R. McColvin. London, James Clarke; New York, Bowker, 1955. pp.xxviii,647,64. 50s. (*D*) *609*

DIRECTORIES AND YEAR BOOKS

[See *612* and *660*]

SOCIAL SCIENCES

PEAR, T. H.

English social differences. A. & U., 1955. pp.319, bibliog. 18s. (*A*) *610*

STOETZEL, J.

Without the chrysanthemum and the sword: a study of the attitudes of youth in post-war Japan. Paris, Unesco; London, Heinemann, 1955. pp.334, front., plates, map, tables, diagrs., bibliogs. 800 fr. or 16s. *(C) 611*

ECONOMICS

HORACE PLUNKETT FOUNDATION

Year book of agricultural co-operation, 1955. Oxford, Blackwell, 1955. pp.v,289, tables, bibliog. 25s. *(D) 612*

MENDÈS-FRANCE, P., *and* ARDANT, G.

Economics and action. Paris, Unesco; London, Heinemann, 1955. pp.222, tables. 750 fr. or 15s. *(A) 613*

MILNE, A. M.

The economics of inland transport. Pitman, 1955. pp.vii,292, table, diagrs. bibliog. 25s. *(B) 614*

NATIONAL BUREAU OF ECONOMIC RESEARCH. Conference on Research in Income and Wealth, 1951

Short-term economic forecasting. Princeton, N.J., Princeton University Press; London, O.U.P., 1955. pp.xi,506, illus., tables, diagrs. 60s. or $7.50. *Studies in income and wealth, vol. 17.* *(C) 615*

PUBLIC ADMINISTRATION

ROYAL INSTITUTE OF PUBLIC ADMINISTRATION

Training managers in the public services. A. & U., for the Institute, 1955. pp.[4],84, tables, bibliog. 7s. 6d. *(B) 616*

EDUCATION

CONFERENCE ON THE EDUCATION OF THE YOUNG WORKER, 5th, Oxford, 1954

The young worker: education for human relations: report of the fifth conference held at Oxford in April 1954 by the University Department of Education under the distinguished patronage of H.R.H. the Duke of Edinburgh. Heinemann, 1955. pp.64, tables. 3s. 6d. *(B) 617*

EDUCATIONAL FOUNDATION FOR VISUAL AIDS

Visual aids, films and filmstrips, part V: Scripture, English, history, geography for primary schools. Rev. and enl. The Foundation, 1955. pp.vii,152. 3s. *(D) 618*

HIGGINSON, J. H.

Sadler's studies of American education. Leeds, University, Institute of Education, 1955. pp.86, tables, bibliog. 5s. 6d. *Leeds. University. Institute of Education. Monographs—no. 1.* *(B) 619*

WALKER, A. S.

Pupils' school records: a survey of the nature and use of cumulative records in England and Wales. Newnes Educational Publishing Co., 1955. pp.xviii, 199, tables, diagrs., bibliog. 21s. *National Foundation for Educational Research in England and Wales. Publications, no. 8.* *(B) 620*

[See also *598, 599*]

COMMERCE

HANSON, J. L.

The structure of modern commerce. Macdonald & Evans, 1955. pp.xv,264, tables, diagrs. 8s. 6d. *(B) 621*

PHILOLOGY

UNITED STATES. Library of Congress. *Reference Department. Slavic and East European Division*

Polish abbreviations: a selective list; comp. by J. Wojcicka. Washington, the Library, 1955. pp.[3],122, mimeographed. 90c. *(D) 622*

MATHEMATICS

CRAMÉR, C. H.

The elements of probability theory and some of its applications: [trans. from the Swedish]. New York, Wiley; London, C. & H., 1955. pp.281, tables, diagrs. 56s. or $7. *Publications in statistics series, ed. by W. A. Shewhart.* *(C) 623*

ASTRONOMY

PAWSEY, J. L., *and* **BRACEWELL, R. N.**

Radio astronomy. Oxford, Clarendon Press, 1955. pp.x,361, plates, tables, diagrs., bibliog. 55s. *International monographs on radio, ed. by Sir E. Appleton and R. L. Smith-Rose.* *(C) 624*

CHRONOLOGY

HOOD, P.

How time is measured. O.U.P., 1955. pp.64, front., illus., maps, diagrs. 10s. 6d. *Oxford visual series.* *(A) 625*

GEODESY

MIDDLETON, R. E., *and* **CHADWICK, O.**

A treatise on surveying. 6th ed. Spon, 1955. 2 v., illus., tables, diagrs. 65s. 'Vol. 1: Instruments and basic techniques; rev. by B. G. Manton, general ed., W. Fisher Cassie. 32s. 6d. Vol. 2: More advanced techniques and modern developments; rewritten under the editorship of W. Fisher Cassie. 32s. 6d.' *(B) 626*

[See also *602*]

PHYSICS

BROWN, R. C.

Light. London, [etc.], L.G., 1955. pp.viii,693–1018, diagrs. 14s. 6d. *Textbook of physics; vol. 4.* *(B) 627*

GREEN, A. E. S.

Nuclear physics. New York, London, McG.-H., 1955. pp.xv,535, tables, diagrs., bibliog. 64s. 6d. or $9. *International series in pure and applied physics, ed. by L. I. Schiff.* *(C) 628*

HEAVENS, O. S.

Optical properties of thin solid films. Butterworth, 1955. pp.vii,261, illus., tables, diagrs., bibliog. 35s. *(C) 629*

JAY, K. E. B.

Atomic energy research at Harwell. Butterworth, 1955. pp.xii,144, plates, tables, diagrs., bibliogs. 5s. *(B) 630*

ROSE, M. E.

Multipole fields. New York, Wiley; London, C. & H., 1955. pp.viii,99, bibliog. 40s. or $4.95. *Structure of matter series, ed. by M. G. Mayer.* *(C) 631*

THOMSON, *Sir* **G.**

The atom. 4th ed. O.U.P., 1955. pp.viii,204, tables, diagrs., bibliog. 6s. *Home university of modern knowledge.* *(B) 632*

[See also *600*]

CHEMISTRY

ILER, R. K.

The colloid chemistry of silica and silicates. New York, Cornell University Press, 1955. pp.324, illus. $5.50. *(C) 633*

GEOLOGY

[See *605*]

METEOROLOGY

SHAW, *Sir* **W. N.**

Selected meteorological papers of Sir Napier Shaw; ed. by R. G. K. Lempfert and E. E. Austin. Macdonald, 1955. pp.275, front., maps, tables, diagrs., bibliog. 50s. *(B/C) 634*

LESTER, R. M.

The observer's book of weather. Warne, 1955. pp.viii,152, plates, maps, tables, diagrs. 5s. *Observer's pocket series.* *(A) 635*

BIOLOGY

FRANKLIN, T. B.

Climates in miniature: a study of micro-climate environment. Faber, 1955. pp.137, plates, tables, diagrs. 15s. *(A) 636*

ARCHAEOLOGY

CHARLESTON, R. J.

Roman pottery. Faber, 1955. pp.xv,48, front., plates, bibliog. 35s. *Monographs on pottery and porcelain series, ed. by W. B. Honey.* *(A) 637*

WEINER, J. S.

The Piltdown forgery. O.U.P., 1955. pp.xii,214, plates, table, bibliog. 12s. 6d. *(A) 638*

BIOCHEMISTRY

BOURNE, G. H., *and* **DANIELLI, J. F.,** *eds.*

International review of cytology, 1954: Vol. III. New York, Academic Press, 1954. pp.530, tables. $9.50. *(C) 639*

CHARGAFF, E., *and* **DAVIDSON, J. N.**

The nucleic acids: chemistry and biology; Vol. 1. New York, Academic Press, 1955. pp.xi,692, illus., tables, $16.80. *(B) 640*

BOTANY

HARRINGTON, H. D.

Manual of the plants of Colorado. Denver, Colorado, Sage Books, 1955. pp.666. $8. *(B) 641*

[See also *654*]

ZOOLOGY

BUXTON, P. A.

The natural history of tsetse flies: an account of the biology of the genus glossina (diptera). H. K. Lewis, 1955. pp.xviii,816, illus., maps, tables, diagrs., bibliog. 84s. *London. University. London School of Hygiene and Tropical Medicine. Memoirs, no. 10.* *(B) 642*

FERRIS, G. F.

Atlas of the scale insects of North America: vol. 7; The families aclerdidae, asterolecaniidae, conchaspididae, dactylopiidae and lacciferidae. Stanford, (Calif.), Stanford University Press; London, O.U.P., 1955. pp.iii,233, tables, diagrs. $7.50 or 60s. *(C) 643*

VETERINARY SCIENCE

GAIGER, S. H., *and* **DAVIES, G. O.**

Veterinary pathology and bacteriology. 4th ed. Baillière, Tindall & Cox, 1955. pp.viii,803, illus., tables, diagrs. 42s. *(B) 644*

ENGINEERING

MURPHY, L. J.

Plant engineer's easy problem solver. New York, Conover-Mast Publications, 1954. pp.xii,355, diagrs. $6. 'A series of graphs and charts.' *(C) 645*

SHOEMAKER, R. W.

Radiant heat, including cooling and heat-pump applications. 2nd ed. New York, London, McG.-H., 1954 (i.e. 1955). pp.x,346, illus., tables, diagrs. $7 or 50s. 'Previous ed. 1948.' *(B) 646*

Electrical

IVE, G. A. G.

Photo-electric handbook; with notes on installation and maintenance. Newnes, 1955. pp.vii,152, illus., tables, diagrs. 17s. 6d. *(B/C) 647*

[See also *596*]

Internal Combustion

SPALDING, D. B.

Some fundamentals of combustion. Butterworth, 1955. pp.x,250, illus., tables, diagrs., bibliog. 40s. *Gas turbine series, ed. by J. Hodge, vol. 2.* *(C) 648*

Mining

STOČES, B.

Introduction to mining. I. R. Maxwell, 1955. 2 v., plates, illus., diagrs. 63s. *(B) 649*

Civil

COULTAS, H. W.

Theory of structures. 4th ed. Pitman, 1955. pp.xii,564, plate, tables, diagrs. 25s. *Engineering degree series.* *(B) 650*

[See also *674*]

AGRICULTURE

HEADY, E. O., *and* **JENSEN, H. R.**

Farm management economics. New York, Prentice-Hall, 1954. pp.ix,645, illus., tables, diagrs. $9. *(B) 651*

[See also *612*]

Machinery

The GREEN book: British tractors and machinery; vol. 4, 1955, ed. by A. Woolf. Norman Kark Publications, 1955. pp.324, illus., diagrs. 40s. *(D) 652*

SOILS

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Multilingual vocabulary of soil science, by G. V. Jacks. Rome, F.A.O., 1954. pp.vii,439. 20s. 'Covers terms in English, French, German, Spanish, Portuguese, Italian, Dutch and Swedish.' *(D) 653*

PESTS

GREAT BRITAIN. Ministry of Agriculture and Fisheries
British poisonous plants, by A. A. Forsyth. H.M.S.O., 1954 [i.e. 1955]. pp.vi,116, front., plates, tables, bibliog. 6s. 6d. *Bulletins, no. 161.* *(B) 654*

HOLMES, E.
Practical plant protection; with a foreword by Sir J. Scott Watson. Constable, 1955. pp.xii,252, front., plates, tables, bibliog. 15s. *(B) 655*

CROPS

REED, C. A., *and* DAVIDSON, J.
The improved nut trees of North America, and how to grow them. New York, Devin-Adair, 1954. pp.xxv,404, illus., diagrs. $6. *(B) 656*

FRUIT GROWING

PARSONS, H.
Grapes under glass. London, Collingridge; New York, Transatlantic Arts, 1955. pp.62, front., illus., plates, diagrs. 10s. 6d. *(B) 657*

FORESTRY

TIMBER DEVELOPMENT ASSOCIATION
Timbers of South East Asia; by G. Hart. 21 College Hill, London, E.C.4, the Association, 1955. pp.91. Gratis. *(D) 658*

HORTICULTURE

BERTRAND, A. D.
Indoor plants, and how to grow them; trans. from the French by V. Higgins. C. Lockwood, 1955. pp.92, front., plates, illus., tables. 16s. *(B) 659*

The FUCHSIA annual, 1954; the official publication of the British Fuchsia Society: hon. editor, J. L. Grout. 120 Shenley Avenue, Ruislip, Middx., the Society, 1955. pp.54, illus., tables. 7s. 6d. *(D) 660*

JOHNSTONE, G. H.
Asiatic magnolias in cultivation; with a foreword by the Hon. D. Bowes-Lyon. Royal Horticultural Society, 1955. pp.160, front., plates, tables, diagrs., bibliog. 63s. *(B) 661*

KNOTT, J. E.
Vegetable growing. 5th rev. ed. Kimpton, 1955. pp.258, illus., tables, diagrs., bibliog. 37s. 6d. 'Previous ed. 1949.' *(B) 662*

NORTHEN, H. T., *and* NORTHEN, R. T.
The secret of the green thumb. Harrap, 1955. pp.x,431, illus., map, tables, diagrs. 30s. *(B) 663*

PERRY, F.
The woman gardener. Hulton P., 1955. pp.384, front., illus., tables, diagrs. 18s. *(A) 664*

SYMONS-JEUNE, B. H. B.
Natural rock gardening. 3rd ed. rev. Country Life, 1955. pp.168, front., plates, diagrs. 30s. 'Previous ed. 1936.' *(B) 665*

WRIGHT, R. C. M.

Plant propagation: a practical guide to the various methods of propagating trees and shrubs, herbaceous plants, fruits and vegetables; with preface by Dr. T. J. Walsh. Ward, Lock, 1955. pp.192, front., plates, tables. 25s. *(B) 666*

PRINTING AND PUBLISHING

RYDER, J.

Printing for pleasure; a practical guide for amateurs. Phoenix House, 1955. pp.142, front., illus., facsims., tables. 9s. 6d. *(A) 667*

TRANSPORT

[See *397, 614*]

CHEMICAL TECHNOLOGY

CEMENT AND CONCRETE ASSOCIATION

Proceedings of a symposium on mix design and quality control of concrete, London, 1954; ed. by R. P. Andrew. The Association, 1955. pp.xvi,548, illus., tables, diagrs., bibliog. 45s. *(C) 668*

GLASS AND CERAMICS

CLEWS, F. H.

Heavy clay technology. Stoke-on-Trent, British Ceramic Research Association, 1955. pp.328, illus., diagrs. 40s. *(B) 669*

[See also *637*]

METALLURGY

ABKOWITZ, S., *and others*

Titanium in industry: technology of structural titanium; by S. Abkowitz, J. J. Burke and R. H. Hiltz. New York, Van Nostrand, 1955. pp.224, tables, diagrs. $5. *(C) 670*

COMSTOCK, G. F.

Titanium in iron and steel. New York, Wiley, for the Engineering Foundation; London, C. & H., 1955. pp.xii,294, illus., tables, diagrs., bibliog. 48s. or $6. *Alloys of iron research new monographs, ed. by F. T. Sisco.* *(C) 671*

BUILDING

KAY, N. E., *ed.*

The modern building encyclopaedia. Odhams Press, 1955. pp.768, tables, diagrs. 35s. *(D) 672*

ARCHITECTURE

HOLMES, B. H., *ed.*

Materials and methods in architecture: a compendium of technical articles. New York, Reinhold; [London, C. & H.], 1954. pp.iv,412, illus. $10 or 80s. *(B) 673*

PARKER, H. E.

Simplified design of structural steel. 2nd ed. New York, Wiley; London, C. & H., 1955. pp.xii,244, tables, diagrs. 46s. or $5.75. *(B) 674*

PHOTOGRAPHY

PEARLMAN, A.

Rollei manual: the complete book of twin-lens photography. 2nd ed. rev. and enlarged. Fountain Press, 1955. pp.xii,382, front., illus., tables, diagrs. 37s. 6d. *(A) 675*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Agriculture, 56
Archaeology, 55
Architecture, 58
Astronomy, 54

Bibliography, 51
Biochemistry, 55
Biology, 55
Botany, 55
Building, 58

Chemical technology, 58
Chemistry, 55
Chronology, 54
Civil engineering, 56
Commerce, 53
Crops, 57

Directories and yearbooks, 52
Documentation, 51

Economics, 53
Education, 53
Electrical engineering, 56
Engineering, 56

Forestry, 57
Fruit growing, 57

General science, 51
Geodesy, 54
Geology, 55
Glass and ceramics, 58

Horticulture, 57

Internal combustion, 56

Librarianship, 52

Machinery, 56
Mathematics, 54
Metallurgy, 58
Meteorology, 55
Mining, 56

Pests, 57
Philology, 54
Photography, 58
Physics, 54
Printing and publishing, 58
Public administration, 53

Social sciences, 52
Soils, 57

Transport, 58

Veterinary science, 56

Zoology, 55

Erratum: Aslib Book-list vol. 20, no. 7, July 1955, entry no. 536. CLARK. W., should read CLARK. G. L.

AUTHOR OR TITLE INDEX

Abkowitz, S., 670
American Association of Collegiate Registrars and Admissions Officers. Committee on Special Projects, 595
Andrew, R. P., *ed.*, 668
Appleton, *Sir* E., *ed.*, 624
Ardant, G., 613
Austin, E. E., *ed.*, 634
Baker, C., 592
Ball, J., 593
Battelle Memorial Institute, 596
Benford, R. J., 601
Bertrand, A. D., 659
Bourne, G. H., *ed.*, 639
Bracewell, R. N., 624
Brown, R. C., 627
Burke, J. J., 670
Buxton, P. A., 642
Calder, R., 591
Cassie, W. Fisher, *ed.*, 626
Cement & Concrete Association, 668
Chadwick, O., 626
Chargaff, E., 640
Charleston, R. J., 637
Clews, F. H., 669
Comstock, G. F., 671
Conference on the Education of the Young Worker, 5th, Oxford, 1954, 617
Conference on Research in Income and Wealth, 1951, 615
Coultas, H. W., 650
Cramér, C. H., 623
Danielli, J. F., *ed.*, 639
Davidson, J., 656
Davidson, J. N., 640
Davies, G. O., 644
Department of Public Information. Sales and Circulation Section, 603
Educational Foundation for Visual Aids, 618
European Productivity Administration. Technical Information Section, 594
Ferris, G. F., 643
Fischer, E. C., 605
Food and Agriculture Organization of the United Nations, 653
Forsyth, A. A., 654
France, P. Mendès-, 613
Franklin, T. B., 636
Fuchsia annual, 1954, 660
Gaiger, S. H., 644
Great Britain. Ministry of Agriculture and Fisheries, 654
Green, A. E. S., 628
Green Book: British tractors and machinery; vol. 4, 652
Grout, J. L., *ed.*, 660
Hanson, J. L., 621
Harrington, H. D., 641
Hart, G., 658
Haskell, D. C., 597
Heady, E. O., 651
Heavens, O. S., 629
Hewitt, A. R., 607
Higgins, V., *trans.*, 659
Higginson, J. H., 619
Hiltz, R. H., 670
Hodge, J., *ed.*, 648
Holmes, B. H., *ed.*, 673
Holmes, E., 655
Honey, W. B., *ed.*, 637
Hood, P., 625
Horace Plunkett Foundation, 612
Iler, R. K., 633
Ive, G. A. G., 647
Jacks, G. V., 653
Jay, K. E. B., 630
Jensen, H. R., 651
Kaplan, M., *comp.*, 606
Kay, N. E., *ed.*, 672
Kent. County. Education Committee, 598, 599
Knott, J. E., 662
Labood, C. G., *ed.*, 606
Lamb, J. P., 608
Lempfert, R. G. K., *ed.*, 634
Lester, R. M., 635
Library of Congress, 606
Library of Congress. Reference Department. Slavic and East European Division, 622
Libraries, museums and art galleries year book, 609
McDolvin, L. R., *ed.*, 609
Manton, B. G., *ed.*, 626
Massachusetts Institute of Technology. Research Laboratory of Electronics, 600
Mayer, M. G., *ed.*, 631
Mendès-France, P., 613
Merriam, A. P., 601
Middleton, R. E., 626
Milne, A. M., 614
Ministry of Agriculture and Fisheries, 654
Murphy, L. J., 645
National Bureau of Economic Research. Conference on Research in Income and Wealth, 1951, 615
Northen, H. T., 663
Northen, R. T., 663
Nottingham, W. B., *comp.*, 600
Organization for European Economic Co-operation. European Productivity Administration. Technical Information Section, 594
Parker, H. E., 674
Parsons, H., 657
Parsey, J. L., 624
Pear, T. H., 610
Pearlman, A., 675
Perry, F., 664
Reed, C. A., 656
Research Laboratory of Electronics, 600
Rose, M. E., 631
Rose, R. L. Smith-, *ed.*, 624
Royal Institute of Public Administration, 616
Royal Institution of Chartered Surveyors, 602
Ryder, J., 667
Schiff, L. I., *ed.*, 628
Shaw, *Sir* W. N., 634
Shewhart, W. A., *ed.*, 623
Shoemaker, R. W., 646
Sisson, F. T., *ed.*, 671
Smith-Rose, R. L., *ed.*, 624
Spalding, D. B., 648
Stokes, B., 649
Stoetzel, J., 611
Symons-Jeune, B. H. B., 665
Thomson, *Sir* G., 632
Timber Development Association, 658
United Nations, 604
United Nations. Department of Public Information. Sales and Circulation Section, 603
United States. Geological Survey, 605
United States. Library of Congress, 606
United States. Library of Congress. Reference Department. Slavic and East European Division, 622
Walker, A. S., 620
Weiner, J. S., 638
Williams, C. B., 593
Wojcicka, J., *comp.*, 622
Woolf, A., *ed.*, 652

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF
RECENTLY PUBLISHED
SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 9
SEPTEMBER 1955
Nos. 676-759

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629: 1950

ASLIB BOOK-LIST

Volume 20 *Number 9* *September 1955*

GENERAL SCIENCE

CALLUS, D. A. P., *ed.*

Robert Grosseteste, scholar and bishop; essays in commemoration of the seventh centenary of his death, with an introduction by Sir Maurice Powicke. Oxford, Clarendon Press, 1955. pp.xxv,263, front., plate, bibliog. 42s. *(B) 676*

CROWTHER, J. G.

Discoveries and inventions of the 20th century. 4th ed. revised and rewritten. Routledge and K. Paul, 1955. pp.xvii,432, plates, tables, diagrs. 30s. 'Previous ed. by E. Cressy, 1930.' *(A) 677*

DOCUMENTATION

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION. **European Productivity Agency**

Report on the workshop on the use of agricultural press (newspapers and magazines) in agricultural advisory work held in Sweden from 16th–26th August, 1954. Paris, O.E.E.C.; [London, H.M.S.O.], 1955. pp.72, plates, tables, diagrs. *(Price not given).* *(B) 678*

BIBLIOGRAPHY.

INTERNATIONAL POLITICAL SCIENCE ASSOCIATION, and INTERNATIONAL COMMITTEE FOR SOCIAL SCIENCES DOCUMENTATION

International bibliography of political science. Vol. II (works published in 1953, including some publications of the previous year): ed. by J. Meynaud. Paris, Unesco; [London, H.M.S.O.], 1955. pp.279. 19s. 6d., $3.50 or 950 fr. *Documentation in the social sciences.* *(D) 679*

JACKS, G. V., *and* MILNE, M. K.

An annotated bibliography of rice soils and fertilizers. Harpenden, Commonwealth Bureau of Soil Science; Rome, Food and Agriculture Organization of the United Nations, 1954 [i.e. 1955]. pp.v,180. 7s. 6d. or $1.50. *(D) 680*

NATIONAL RESEARCH COUNCIL. **Pacific Science Board**

Island bibliographies: Micronesian botany, land environment and ecology of coral atolls, vegetation of tropical Pacific islands; by M-H. Sachet and F. R. Fosberg. [Washington], National Academy of Sciences—National Research Council, 1955. pp.v,577. $6. *Publication 335.* *(D) 681*

UNITED NATIONS. **Statistical Office**

List of statistical series collected by international organizations. New York, the Office, 1955. pp.viii,78, tables. 6s. or 80 c. *Statistical papers, series M, no. 11, rev. 1.* *(D) 682*

LIBRARIANSHIP

SAYERS, W. C. B.

A manual of classification for librarians and bibliographers. 3rd ed. rev. Grafton, 1955. pp.xviii,346, tables, diagrs. 42s. *(B) 683*

DIRECTORIES AND YEARBOOKS

COLLIERY yearbook and coal trades directory, 1955. 33rd ed. L. Cassier, 1955. pp.980. 30s. *(D) 684*

EUROPEAN yearbook; published under the auspices of the Council of Europe; vol. 1. The Hague, Nijhoff; [London, Batsford], 1955. pp.xxv,584. 28.50 fl. or 57s. *(D) 685*

SOCIAL SCIENCES

[See *679*]

STATISTICS

[See 682]

ECONOMICS

BENHAM, F.

Economics: a general introduction. 5th ed. Pitman, 1955. pp.xvi,568, tables. 18s. *(B) 686*

FOGARTY, M. P.

Economic control. Routledge and K. Paul. 1955. pp.x,324, tables, bibliog. 21s. *(C) 687*

POLITICAL AND ECONOMIC PLANNING

British Trade Unionism: five studies by P.E.P. New and rev. ed. Political and Economic Planning, 1955. pp.xi,199, plate, tables. 16s. *(A) 688*

SAXENA, S. K.

Nationalisation and industrial conflict; example of British coal-mining. The Hague, M. Nijhoff; [London, Batsford], 1955. pp.viii,185, map, tables, diagrs., bibliog. 20s. or 10 fl. 'An excellent book giving the first detailed account of the development of labour relations in the British coal industry since nationalisation.' *(B) 689*

TARSHIS, L.

Introduction to international trade and finance. New York, Wiley; London, C. & H., 1955. pp.x,536, tables. 48s. or $5 *(B) 690*

EDUCATION

ARMFELT, R. N.

The structure of English education. Cohen & West, 1955. pp.207. 12s. 6d. *(A) 691*

BANKS, O.

Parity and prestige in English secondary educational psychology. Routledge & K. Paul, 1955. pp.vii,262, tables, bibliog. 25s. *International library of sociology and social reconstruction, ed. by W. J. H. Sprott.* *(B) 692*

EDUCATIONAL FOUNDATION FOR VISUAL AIDS

Catalogue of wall charts. The Foundation, 1955. pp.vi,82. 2s. *(D) 693*

LONDON. UNIVERSITY. Institute of Education

The bearings of recent advances in psychology on educational problems. Evans Bros., for the Institute, 1955. pp.viii,215, bibliog. 7s. *Studies in education, no. 7.* *(B) 694*

RANDALL, M. W., and WAINE, W. K.

Objectives of the physical education lesson. Bell, 1955. pp.x,181, diagrs., bibliog. 10s. 6d. *(B) 695*

PHILOLOGY

BLACK, J. W., *and* **MOORE, W. E.**

Speech: code, meaning and communication. New York, London, [etc.], McG.-H., 1955. pp.vii,430, illus., tables, diagrs. 34s. or $4.50. *(B) 696*

COMMERCE

[See *758*]

MATHEMATICS

BOCHNER, S.

Harmonic analysis and the theory of probability. Berkeley, California University Press; London, C.U.P., 1955. pp.viii,176, tables. 35s. *California monographs on mathematical science, ed. by G. C. Evans and others.* *(C) 697*

ROSE, W. N.

Mathematics for engineers: Part I, including elementary and higher algebra, mensuration and graphs, and plane trigonometry. 9th ed. C. & H., 1955. pp.xiv,527, illus., tables, diagrs. 21s. *Directly-useful technical series, ed. by J. L. Bale.* *(B) 698*

ASTRONOMY

HOYLE, F.

Frontiers of astronomy. Heinemann, 1955. pp.xvi,360, plates, illus., diagrs. 25s. *(A) 699*

KUIPER, G. P., *ed.*

The earth as a planet. Chicago, Chicago University Press; London, C.U.P., 1954 (i.e. 1955). pp.xvii,751, illus., maps, tables, diagrs., bibliog. $12.50 or 94s. *Solar system series, vol. 2.* *(C) 700*

NEUGEBAUER, O., *ed.*

Astronomical cuneiform texts: Babylonian ephemerides of the Seleucid period for the motion of the sun, the moon and the planets. Lund Humphries, for the Institute for Advanced Study, Princeton, 1955. 3 v. 105s. 'Vol. 1: Introduction: The moon. Vol. 2: The planets. Vol. 3: Plates.' *(C) 701*

SKILLING, W. T., *and* **RICHARDSON, R. S.**

A brief text in astronomy. New York, Holt; London, C. & H., 1955. pp.viii,327, front., illus., diagrs. 32s. or $4. *(C) 702*

GEODESY

DAVIS, R. E.

Elementary plane surveying. 3rd ed. New York, London, McG.-H., 1955. pp.xvii,507, plate, illus., tables, diagrs. 41s. 6d. or $5.50. *(B) 703*

[See also *731*]

PHYSICS

De BROGLIE, L.

Physics and microphysics; trans. by M. Davidson, with a foreword by A. Einstein. Hutchinson, 1955. pp.286, plates, table, bibliog. 21s. *(B) 704*

GORTER, C. J., *ed.*

Progress in low temperature physics; vol. 1. Amsterdam, North-Holland Publishing Co., 1955. pp.xii,418, tables, diagrs. 61s. *(C) 705*

VON NEUMANN, J.

Mathematical foundations of quantum mechanics; trans. from the German edition by R. T. Beyer. Princeton, Princeton University Press; London, O.U.P., 1955. pp.xii,445, diagrs. 48s. or $6. *Investigations in physics series, ed. by E. Wigner and R. Hofstadter, no. 2.* *(C) 706*

CHEMISTRY

BELCHER, R., *and* WILSON, C. L.

New methods in analytical chemistry. C. & H., 1955. pp.xii,287, tables, diagrs., bibliogs. 30s. *(C) 707*

BOVEY, F. A., *and others*

Emulsion polymerization. New York, London, Interscience, 1955. pp.xii,445, illus., diagrs. $12.50 or 100s. *High polymers series, ed. by H. Mark and others, vol. 9.* 'Collaborators: F. A. Bovey, I. M. Kolthoff, A. I. Medalia, E. J. Meehan.' *(C) 708*

HOPKIN & WILLIAMS, LTD.

Organic reagents for metals and other reagent monographs; by the laboratory staff of Hopkin & Williams, Ltd.: Vol. 1; ed. by W. C. Johnson. 5th ed. Chadwell Heath, Essex, Hopkin & Williams, 1955. pp.viii,199, tables, diagrs., bibliog. 15s. *(C) 709*

JELLINEK, H. H. G.

Degradation of vinyl polymers. New York, Academic Press; London, Academic Books, 1955. pp.[8],329, tables, diagrs., bibliogs. $8.50 or 68s. 'An up-to-date, authoritative review of the non-industrial literature of the kinetics of polymer degradation including a full consideration of the probable mechanisms involved.' *(C) 710*

BIOLOGY

BROWN, E. S.

Life in fresh water. O.U.P., 1955. pp.64, front., illus., diagrs., bibliog. 10s. 6d. *Visual series.* *(B) 711*

SUÑER, A. P.

Classics of biology. Trans. by C. M. Stern. Pitman, 1955. pp.x,337, tables, diagrs. 35s. *(B) 712*

[See also *759*]

BIOCHEMISTRY

HOLMAN, R. T., *and others, eds.*

Progress in the chemistry of fats and other lipids: vol. 3; ed. by R. T. Holman, W. O. Lundberg and T. Malkin. London, New York, Pergamon Press, 1955. pp.[7],475, plates, tables, diagrs., bibliogs. $10.50 or 70s. *Progress series.* *(C) 713*

BOTANY

LEVITT, J.

Plant physiology. New York, Prentice-Hall, 1955. pp.172, illus. $5. *Prentice-Hall plant science series.* *(B) 714*

UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION. Arid Zone Research

Plant ecology: reviews of research; Ecologie végétale: compte rendu de recherches. Paris, Unesco; [London, H.M.S.O.], 1955. pp.377, plates, tables, diagrs., bibliogs. 45s. *(C) 715*

ZOOLOGY

FERNHALD, H. T., *and* SHEPHARD, H. H.

Applied entomology: an introductory textbook of insects in their relation to man. 5th ed. New York, London, McG.-H., 1955. pp.ix,385, front., illus., bibliog. 52s. 6d. or $7. *McGraw-Hill publications in the agricultural sciences, ed. by R. A. Brink.* *(B) 716*

HEDIGER, H.

Studies of the psychology and behaviour of captive animals in zoos and circuses; trans. from the German by G. Sircom. Butterworth, 1955. pp.vii,166, plates, tables, bibliog. 30s. *(B) 717*

MATTHEWS, G. V. T.

Bird navigation. Cambridge, C.U.P., 1955. pp.vii,141, maps, tables, diagrs., bibliog. 12s. 6d. *Cambridge monographs in experimental biology, edited by M. Abercrombie and author.* *(B) 718*

PUBLIC HEALTH

INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION

Recommendations, revised December 1, 1954. British Institute of Radiology, 1955. pp.ix,92, tables, diagrs., bibliog. 12s. 6d. *British Journal of Radiology. Supplements, no. 6.* *(C) 719*

ENGINEERING

[See *698*]

Automatic Control

[See *725*]

Mechanical

TIMOSHENKO, S. P.

Vibration problems in engineering. 3rd ed. in collaboration with D. H. Young. New York, Van Nostrand; London, Macmillan, 1955. pp.ix,468, illus. $8.50 or 65s. *(C) 720*

Electrical

GRAHAM, A. K., *and* **PINKERTON, H. L.,** *eds.*

Electroplating engineering handbook. New York, Reinhold, 1955. pp.650, plates, diagrs. $10. *(C) 721*

RICHARDSON, R. C. H.

The commissioning of electrical plant, and associated problems. 3rd ed. rev. C. & H., 1955. pp.xv,440, diagrs., bibliog. 50s. *Monograph on electrical engineering, vol. 5.* *(B) 722*

SYKES, J. H. M.

A guidebook to electricity. Hutchinson, 1955. pp.275, plates, tables, diagrs. 21s. *(A) 723*

Electrical Communications

GOURIET, G. G.

An introduction to colour television. Price, for the Television Society, 1955. pp.72, diagrs., bibliog. 8s. 6d. *(B) 724*

THOMASON, J. G.

Linear feedback analysis. Pergamon Press, 1955. pp.x,355, tables, diagrs., bibliog. 55s. *(B/C) 725*

Internal Combustion

PARKINSON, T. H.

Diesel maintenance: a practical guide to the servicing of the modern automotive diesel engine. 4th ed. edited by D. H. Smith. Iliffe, for *Motor Transport*, 1955, pp.219, illus., tables, diagrs. 12s. 6d. *(B) 726*

POUNDER, C. C., *ed.*

Diesel engine principles and practice. Newnes, 1955. pp.xiii,833, illus., tables, diagrs., bibliog. 84s. *(C) 727*

WORKSHOP PRACTICE

ROBIETTE, A. G. E.

Electric melting and smelting practice. Griffin, 1955. pp.vii,347, illus., tables, diagrs., bibliog. 50s. *(C) 728*

ROPER, F. D.

Iron moulding for apprentices. Ernest Benn, 1955. pp.136, illus., tables, diagrs. 15s. *(A) 729*

[See also *721* and *748*]

MARINE

TRAUNG, J-O., *ed.*

Fishing boats of the world. A. J. Heighway Publications for Food and Agriculture Organization of the United Nations, 1955. pp.xx,579,xlvi, illus., tables, diagrs., bibliog. 90s. or $12.50. *(B) 730*

CIVIL

BIRCHAL, H. F.

Modern surveying for civil engineers: the practice of surveying, estimating and setting out works of all kinds including chapters on modern photographic and aerial surveying as applied to engineering enterprises. 2nd ed. rev. C. & H., 1955. pp.xi,528, plates, illus., maps, tables, diagrs. 50s. *(B) 731*

GREAT BRITAIN. National Physical Laboratory

Wind effects on bridges and other flexible structures. H.M.S.O., 1955. pp.iv,14, front., plates, diagrs., bibliog. 1s. 6d. *Notes on applied science, no. 11.* *(C) 732*

SANITARY

HEMEON, W. C. L.

Plant and process ventilation. New York, Industrial Press; London, Bailey & Swinfen, 1955. pp.ix,437, illus., tables, diagrs. 76s. 6d. or $9.65. *(C) 733*

ILLUMINATING

ILLUMINATING ENGINEERING SOCIETY

I.E.S. code for lighting in buildings. The Society, 1955. pp.iv,40, tables. 5s. *(D) 734*

AGRICULTURE

SOILS

BEAR, F. E., *ed.*

Chemistry of the soil. New York, Reinhold; [London, C. & H.], 1955. pp.x,373, tables, diagrs., bibliog. $8.50 or 70s. *American Chemical Society. Chemical monographs, no. 126.* *(C) 735*

BENNETT, H. H.

Elements of soil conservation. 2nd ed. New York, London, McG.-H., 1955. pp.358, illus. $3.96 or 28s. 6d. *(B) 736*

MILLAR, C. E.

Soil fertility. New York, Wiley; London, C. & H., 1955. pp.xi,436, tables, diagrs., bibliog. 54s. or $6.75. *(C) 737*

[See also *680*]

CROPS

[See *738*]

FRUIT GROWING

WORMALD, H.

Diseases of fruits and hops; foreword by G. H. Pethybridge. 3rd rev. ed. Lockwood, 1955. pp.325, front., plates, illus., bibliog. 25s. *Agricultural and horticultural series, ed. by H. C. Long.* *(B) 738*

HORTICULTURE

GRAY, A.
Miniature daffodils. London, Collingridge; New York, Transatlantic Arts, 1955. pp.57, plates, tables. 15s. *(A) 739*

LIVESTOCK

HAMMOND, J., *ed.*
Progress in the physiology of farm animals: Vol. 2. Butterworth, 1955. pp.[6],393–740, illus., tables, diagrs., bibliog. 45s. 'To be completed in three volumes.' *(B) 740*

PRINTING AND PUBLISHING

MUMBY, F. A., *and* **STALLYBRASS, F. H. S.**
From Swan Sonnenschein to George Allen & Unwin Ltd.; with an introduction by J. Murray. A. & U., 1955. pp.100, front., plate, ports. 10s. 6d. *(B) 741*

TIMES, *newspaper*
Printing; a supplement. The Times, 1955. pp.48, illus. 1s. *(B) 742*

TRANSPORT

ALLEN, C. J.
The Great Eastern Railway; with a foreword by C. K. Bird. Allan, 1955. pp.10, 222, front., illus., maps, tables. 25s. *(A) 743*

HADFIELD, E. C. R.
The canals of southern England. Phoenix House, 1955. pp.383, plates, maps, facsims., tables. 36s. *(A) 744*

HADFIELD, E. C. R.
Introducing canals: a guide to British waterways today; illustrated by J. James Benn, 1955. pp.233, plates, illus., maps, bibliog. 16s. *(A) 745*

INTERNATIONAL CARGO HANDLING CO-ORDINATION ASSOCIATION
Progress in cargo handling; papers read at the General Technical Conference of the International Cargo Handling Co-ordination Association, Naples, 1954. Iliffe, by arrangement with the Association, 1955. pp.342, illus., tables, diagrs. 50s. *(C) 746*

NOCK, O. S.
The railway engineers. Batsford, 1955. pp.256, front., illus., tables, diagrs., bibliog. 18s. *(A) 747*

INDUSTRIAL ORGANIZATION

AMERICAN FOUNDRYMEN'S SOCIETY
Time and motion study for the foundry. Chicago, the Society, 1954. pp.168. $9. *(B) 748*

REPORTING back: a report of the groups of young managers attending the Universities of Cincinnati and Syracuse under the auspices of the Mutual Security Agency, 1951–1953. Management Publications, 1955. pp.vii,60, tables, diagrs., bibliog. 7s. 6d. *(B) 749*

CHEMICAL TECHNOLOGY

OILS AND FATS

BONER, C. J.
Manufacture and application of lubricating greases. New York, Reinhold; London, C. & H., 1955. pp.v,977, illus., tables, diagrs., bibliogs. 148s. or $18.50. 'An authoritative review of the theory, formulation, manufacturing, analysis and evaluation of all classes of lubricating greases by an international authority in this field.' *(C) 750*

METALLURGY

IRON AND STEEL INSTITUTE

Symposium on sinter, 1953, London; papers and discussions. The Institute, 1955. pp.vii,200, plates, illus., tables, diagrs., bibliog. 37s. 6d. *Iron & Steel Institute. Special reports, no. 53.* *(B) 751*

MANUFACTURES

PAPER

NATIONAL ASSOCIATION OF PAPER MERCHANTS. Education Committee

Paper: its making, merchanting and usage; the paper merchants' textbook; ed. by S. C. Gilmour. L.G., in conjunction with the Association, 1955. pp.xi,324, illus., tables, diagrs., bibliog. 30s. *(B) 752*

CANADIAN PULP AND PAPER ASSOCIATION. Technical Section. Committee on Education, *and*

TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY. Committee on Vocational Education. Joint Textbook Committee of the Paper Industry in the United States and Canada

Pulp and paper manufacture: vol. 4; Auxiliary paper mill equipment. Rev. ed.; editor-in-chief J. N. Stephenson. New York, London, McG.-H., 1955. pp.xiii,732, illus., tables, diagrs., bibliog. 64s. 6d. or $9. *(B) 753*

TEXTILES

INTERNATIONAL COTTON CONGRESS, 1954

The cotton industry—today and tomorrow: official report on the Jubilee International Cotton Congress, held at Buxton, England, 13th–20th May, 1954; ed. by M. Ludwig. Manchester, International Federation of Cotton and Allied Textile Industries, 1955. pp.288, plate, illus., tables, diagrs. 21s. *(A) 754*

FINE MECHANISMS

BRITTEN, F. J.

Watch and clock makers' handbook, dictionary and guide. 15th ed. rev. by J. W. Player. Spon, 1955. pp.ix,598, illus., tables, diagrs. 63s. *(D) 755*

BUILDING

DALZELL, J. R., *and* **TOWNSEND, G.**

Bricklaying skill and practice; illus. by E. Burke. Chicago, American Technical Society; London, Technical Press, 1954. pp.195, illus. $3.50 or 28s. *(B) 756*

RALPHS, S.

Elementary quantity surveying. Pitman, 1955. pp.vii,383, illus., facsims., tables, diagrs. 25s. *(B) 757*

GEOGRAPHY

STAMP, L. D.

An intermediate commercial geography: Part 2; The economic geography of the leading countries. 8th ed. L.G., 1955. pp.[7],584, maps, tables, diagrs., bibliog. 25s. *University geographical series, ed. by L. D. Stamp.* *(B) 758*

BIOGRAPHY

IRVINE, W.

Apes, angels and Victorians: a joint biography of Darwin and Huxley. Weidenfeld & Nicholson, 1955. pp.399, plates, bibliog. 21s. *(A/B) 759*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Agriculture, 64
Astronomy, 61
Automatic control, 63

Bibliography, 59
Biochemistry, 62
Biography, 66
Biology, 62
Botany, 62
Building, 66

Chemical technology, 65
Chemistry, 62
Civil engineering, 64
Commerce, 61
Crops, 64

Directories and yearbooks, 60
Documentation, 59

Economics, 60
Education, 60
Electrical communications, 63
Electrical engineering, 63
Engineering, 63

Fine mechanisms, 66
Fruit growing, 64

General science, 59
Geodesy, 61
Geography, 66

Horticulture, 65

Illuminating engineering, 64
Industrial organization, 65
Internal combustion, 63

Librarianship, 59
Livestock, 65

Manufactures, 66
Marine engineering, 64
Mathematics, 61
Mechanical engineering, 63
Metallurgy, 66

Oils and fats, 65

Paper, 66
Philology, 61
Physics, 61
Printing and publishing, 65
Public health, 63

Sanitary engineering, 64
Social sciences, 60
Soils, 64
Statistics, 60

Textiles, 66
Transport, 65

Workshop practice, 64

Zoology, 62

AUTHOR OR TITLE INDEX

Abercrombie, M., *ed.*, 718
Allen, C. J., 743
American Foundrymen's Society, 748
Arid Zone Research, 715
Armfelt, R. N., 691

Bale, J. L., *ed.*, 698
Banks, O., 692
Bear, F. E., *ed.*, 735
Belcher, R., 707
Benham, F., 686
Bennett, H. H., 736
Beyer, R. T., *trans.*, 706
Birchal, H. F., 731
Black, J. W., 696
Bochner, S., 697
Boner, C. J., 750
Bovey, F. A. *col.*, 708
Brink, R. A., *ed.*, 716
Britten, F. J., 755
Broglie, L. De, 704
Brown, E. S., 711

Callus, D. A. P., *ed.*, 676
Canadian Pulp and Paper Association. Technical Section. Committee on Education, 753
Colliery yearbook and coal trades directory, 684
Crowther, J. G., 677

Dalzell, J. R., 756
Davidson, M., *trans.*, 704
Davis, R. E., 703
De Broglie, L., 704

Educational Foundation for Visual Aids, 693
European Productivity Agency, 678
European yearbook, 685
Evans, G. C., *ed.*, 697

Fernald, H. T., 716
Fogarty, M. P., 687
Fosberg, F. R., 681

Gilmour, S. C., *ed.*, 752
Gorter, C. J., *ed.*, 705
Gouriet, G. G., 724
Graham, A. K., *ed.*, 721
Gray, A., 739
Great Britain. National Physical Laboratory, 732

Hadfield, E. C. R., 744, 745
Hammond, J., *ed.*, 740
Hediger, H., 717
Hemeon, W. C. L., 733
Hofstadter, R., *ed.*, 706
Holman, R. T., *ed.*, 713
Hopkins & Williams, Ltd., 709
Hoyle, F., 699

Illuminating Engineering Society, 734
International Cargo Handling Co-ordination Association, 746
International Commission on Radiological Protection, 719
International Committee for Social Sciences Documentation, 679
International Cotton Congress, 1954, 754
International Political Science Association, 679
Iron and Steel Institute, 751
Irvine, W., 759

Jacks, G. V., 680
Jellinek, H. H. G., 710
Johnson, W. C., *ed.*, 709
Joint Textbook Committee of the Paper Industry in the United States and Canada, 753

Koltoff, I. M., *col.*, 708
Kuiper, G. P., *ed.*, 700

Levitt, J., 714
London. University. Institute of Education, 694
Long, H. C., *ed.*, 738
Ludwig, M., *ed.*, 754
Lundberg, W. O., *ed.*, 713

Malkin, T., *ed.*, 713
Mark, H., *ed.*, 708
Matthews, G. V. T., 718
Medalia, A. I., *col.*, 708
Meehan, E. J., *col.*, 708
Meynaud, J., *ed.*, 679
Millar, C. E., 737
Milne, M. K., 680
Moore W. E., 696
Mumby, F. A., 741

National Association of Paper Merchants. Education Committee, 752
National Physical Laboratory, 732
National Research Council. Pacific Science Board, 681
Neugebauer, O., *ed.*, 701
Newmann, J. von, 706
Nock, O. S., 747

Organization for European Economic Co-operation. European Productivity Agency, 678

Pacific Science Board, 681
Parkinson, T. H., 726
Pinkerton, H. L., *ed.*, 721
Player, J. W., *ed.*, 755
Political and Economic Planning, 688
Pounder, C. C., *ed.*, 727

Ralphs, S., 757
Randall, M. W., 695
Reporting back, 749
Richardson, R. C. H., 722
Richardson, R. S., 702
Robiette, A. G. E., 728
Roper, F. D., 729
Rose, W. N., 698

Sachet M.-H., 681
Saxena, S. K., 689
Sayers, W. C. B., 683
Shepherd, H. H., 716
Sircom, G., *trans.*, 717
Skilling, W. T., 702
Smith, D. H., *ed.*, 726
Sprott, W. J. H., *ed.*, 692
Stallybrass, F. H. S., 741
Stamp, L. D., 758
Stephenson, J. N., *ed.*, 753
Stern, C. M., *trans.*, 712
Suñer, A. P., 719
Sykes, J. H. M., 723

Tarshis, L., 690
Technical Association of the Pulp and Paper Industry. Committee on Vocational Education, 753
Thomson, J. G., 725
Times, *newspaper*, 742
Timoshenko, S. P., 720
Townsend, G., 756
Traung, J-O., *ed.*, 730

United Nations. Statistical Office, 682
United Nations Educational, Scientific and Cultural Organization. Arid Zone Research, 715

Von Neumann, J., 706

Waine W. K., 695
Wigner, E., *ed.*, 706
Wilson, C. L., 707
Wormald, H., 738
Young, D. H., *col.*, 720

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 10
OCTOBER 1955
Nos. 760-842

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

CALCUTTA UNIVERSITY LIBRARY

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629: 1950.

ASLIB BOOK-LIST

Volume 20 *Number 10* *October 1955*

GENERAL SCIENCE

[See *792*]

SCIENTIFIC RESEARCH

[See *774*]

BIBLIOGRAPHY

COLLISON, R. L.
Dictionaries of foreign languages: a bibliographical guide to the general and technical dictionaries of the chief foreign languages, with historical and explanatory notes and references. Hafner, 1955. pp.xix,210. 27s. 6d. *(D) 760*

FOXON, D.
The technique of bibliography. Cambridge, C.U.P., for National Book League, 1955. pp.20. 3s. *The book, no. 6.* *(A) 761*

LONDON LIBRARY
Subject-index of the London Library. Vol. four, 1938–1953. The Library, 1955. pp.xi,801. 189s. *(D) 762*

POPPER, M., *comp.*
A bibliography of the works in English of Arnold Toynbee, 1910–1954. London, New York, Royal Institute of International Affairs, 1955. pp.iv,59, mimeographed. 5s. *(D) 763*

UNITED STATES. Library of Congress. *Science Division*
Chinese scientific and technical periodical publications in the collections of the Library of Congress. Washington, the Library, 1955. pp.v,55. 40c. 'Obtainable from the U.S. Government Printing Office.' *(B) 764*

[See also *779*, *821*, *839* and *841*]

LIBRARIANSHIP

ASSOCIATION OF ASSISTANT LIBRARIANS
The Final Examination. Part 2. Library organization and administration. First paper: General, by F. N. Macdonald, and second paper: (*c*) Special libraries and information bureaux, by A. Thompson and A. J. Walford. The Association, 1955. pp.39. 4s. 6d. (3s. 6d. to members). *The A.A.L. guides to the Library Association examinations, under the general editorship of A. J. Walford.* *(B) 765*

BARNARD, C. C.
A classification for medical and veterinary libraries. 2nd ed. H. K. Lewis, 1955. pp.viii,279, tables. 84s. *(D) 766*

HARVARD UNIVERSITY LIBRARY

Report on the Harvard University Library; a study of present and prospective problems, by K. D. Metcalf. Cambridge, Mass., the Library, 1955. pp.131. $2.50. (*B*) *767*

LIBRARY ASSOCIATION OF AUSTRALIA. Special Libraries Section

Directory of special libraries in Australia; comp. by B. M. Brown, V. M. Dow, [and] P. M. Dunk. Sydney, the Association, 1954. pp.149. 20s. (*D*) *768*

OSBORN, A. D.

Serial publications: their place and treatment in libraries. Chicago, American Library Association, 1955. pp.xiv,309, illus., tables, diagrs. $6. (*B*) *769*

PHILLIPS, W. H.

A primer of book classification. [4th] rev. ed. Association of Assistant Librarians, 1955. pp.235. 8s. 6d. (7s. to members). (*A*) *770*

UNITED STATES. Library of Congress. *Processing Department*

The card catalogs of the Library of Congress; a brief description. Washington, the Library, 1955. pp.v,30, diagrs. 30c. 'Obtainable from U.S. Government Printing Office.' (*B*) *771*

DIRECTORIES AND YEARBOOKS

CANADIAN ASSOCIATION OF BRITISH MANUFACTURERS AND AGENCIES

Register of British products and Canadian distributors, 1955–56. Kelly's and Iliffe, 1955. pp.763. 44s. (*D*) *772*

A FRENCH teacher's year book: supplement 1955; ed. by R. G. Brettell. University of London Press, 1955. pp.63, tables, bibliog. 4s. (*D*) *773*

SOUTH AFRICA. Council for Scientific and Industrial Research

Directory of scientific research organizations in the Union of South Africa; ed. by D. Ryle Masson. 3rd ed. Pretoria, J. L. van Schaik, 1955. pp.ix,123. 24s. (*D*) *774*

The WORLD of learning, 1955. 6th ed. Europa Publications, 1955. pp.xii,1026. 100s. (*D*) *775*

PHILOLOGY

[See *760*]

PSYCHOLOGY

ABRAHAM, K.

Clinical papers and essays on psycho-analysis. Hogarth Press and the Institute of Psycho-analysis, 1955. pp.336, front. 25s. *The international psycho-analytical library, no. 49; ed. by E. Jones.* (*C*) *776*

SOCIAL SCIENCES

Economics

ARNOT, R. P.

A history of the Scottish miners from the earliest times. A. & U. 1955. pp.xiv,446, front., plates, tables, bibliog. 30s. (*A*) *777*

BARATZ, M. S.

The union and the coal industry. New Haven, Conn., Yale University Press; [Oxford, G. Cumberlege], 1955. pp.170. $3.75 or 30s. *Yale studies in economics, no. 4.* (*A*) *778*

FONDATION NATIONALE DES SCIENCES POLITIQUES

International bibliography of economics (works published in 1952); prepared with the assistance of the International Economic Association and the International Committee for Social Sciences Documentation. Vol. 1. Paris, Unesco; [London, H.M.S.O.] 1955. pp.429. 42s., 2,000 fr. or $7.50. *Documentation in the social sciences.* (*D*) *779*

KRAUSE, W.

The international economy. New York, [etc.], Houghton Mifflin; London, Constable, 1955. pp.x,434, map, tables, diagrs., bibliogs. 30s. 'A survey of the theory of international trade with descriptive material drawn primarily from American experience.' (*B*) *780*

[See also *840*]

PUBLIC ADMINISTRATION

WHEARE, K. C.

Government by committee: an essay on the British Constitution. Oxford, Clarendon Press, 1955. pp.[7],264. 25s. (*B*) *781*

EDUCATION

GREAT BRITAIN. Scottish Education Department

Public education in Scotland. Rev. ed. Edinburgh, H.M.S.O., 1955. pp.58, table, diagr., bibliog. 2s. (*A*) *782*

OESER, O. A., *ed.*

Teacher, pupil and task: elements of social psychology applied to education; a practical manual for teachers. Tavistock Publications, 1955. pp.xiii,196. 18s. (*B*) *783*

POLITICAL AND ECONOMIC PLANNING

Colonial students in Britain: a report. Political and Economic Planning, 1955. pp.ix,257, tables, bibliog. 21s. (*A/B*) *784*

[See also *773* and *775*]

MATHEMATICS

KENDALL, M. G.

Rank correlation methods. 2nd ed. rev. and enlarged. Griffin, 1955. pp.vii,196, tables, diagrs., bibliog. 36s. (*C*) *785*

ASTRONOMY

INTERNATIONAL ASTRONOMICAL UNION

Co-ordination of galactic research; ed. by A. Blaauw. Cambridge, C.U.P., 1955. pp.viii,60. 7s. 6d. *Symposium no. 1.* (*C*) *786*

PHYSICS

BLACKWOOD, O. H., *and others*

An outline of atomic physics. 3rd ed. by O. H. Blackwood, T. H. Osgood, and A. E. Ruark. New York, Wiley; London, C. & H., 1955. pp.x,501. 60s. or $7.50. (*B*) *787*

CRAWFORD, A. E.

Ultrasonic engineering, with particular reference to high power applications. Butterworth, 1955. pp.x,344, illus., tables, diagrs., bibliog. 42s. (*C*) *788*

HUETER, T. F., *and* **BOLT, R. H.**
Sonics: techniques for the use of sound and ultrasound in engineering and science. New York, Wiley; London, C. & H., 1955. 80s. or $10. *(C) 789*

NATIONAL RESEARCH COUNCIL. Conference on Glossary of Terms in Nuclear Science and Technology
A glossary of terms in nuclear science and technology. New York, American Society of Mechanical Engineers, 1955. pp [6],189, diagrs. $5. *(D) 790*

PEASLEE, D. C., *and* **MUELLER, H.**
Elements of atomic physics. New York, Prentice-Hall; [London, Bailey & Swinfen], 1955. pp.ix,394, tables, diagrs. 80s. *Prentice Hall physics series.* *(C) 791*

PEIERLS, R. E.
The laws of nature. A. & U., 1955. pp.284, diagrs. 21s. *(A) 792*

CHEMISTRY

AUSTRALIA. Commonwealth Scientific and Industrial Research Organization
Anti-composition tables for carbon compounds (CH, CHO, CHS, and CHOS); comp. by H. H. Hatt, T. Pearcey and A. Z. Szumer. C.U.P., 1955. pp.191, tables. 21s. *(D) 793*

GARNER, W. E., *ed.*
Chemistry of the solid state. Butterworth, 1955. pp.viii,417, plates, tables, diagrs., bibliogs. 50s. *(C) 794*

DANIELS, F., *and* **ALBERTY, R. A.**
Physical chemistry. New York, Wiley; London, C. & H., 1955. pp.viii,671, illus., tables, diagrs., bibliogs. 52s. or $6.50. *(C) 795*

PAULING, L.
College chemistry: an introduction textbook of general chemistry. 2nd ed. San Francisco, W. H. Freeman; [London, Bailey & Swinfen], 1955. pp.vii, 685, plate, illus., tables, diagrs., bibliogs. 51s. or $6. *(B) 796*

ROYALS, E. E.
Advanced organic chemistry. New York, Prentice-Hall; London, Constable, 1955. pp.xii,948, tables, bibliogs. 68s. *Prentice-Hall chemistry series; ed. by Dr. W. M. Latimer.* *(B) 797*

GEOLOGY

ADAMS, F. D.
The birth and development of the geological sciences. New York, Dover Publications, 1955. pp.v,506, illus. $3.95 (or $1.95 with paper covers). *(B) 798*

FAUL, H., *ed.*
Nuclear geology: a symposium on nuclear phenomena in the earth sciences. New York, Wiley; London, C. & H., 1955. pp.xvii,414, illus., tables, diagrs., bibliog. 56s. or $7. *(C) 799*

LANDSBERG, H. E., *ed.*
Advances in geophysics; vol. 2. New York, Academic Press; London, Academic Books, 1955. pp.x,286. $7.50 or 60s. *(C) 800*

BIOLOGY

BARNARD, K. H.

South African shore-life; illus. by the author. Cape Town, Maskew Miller; London, Bailey & Swinfen, 1954 (i.e. 1955). pp.135, illus. 12s. *(B) 801*

[See also *842*]

ARCHAEOLOGY

HOSKINS, W. G.

The making of the English landscape. Hodder and Stoughton, 1955. pp.xii, 240, front., illus., maps, diagrs., bibliogs. 25s. *(B) 802*

BOTANY

ARNON, D. I., *and* **MACHLIS, L.,** *eds.*

Annual review of plant physiology; vol. 6, 1955. Stanford, Calif., Annual Reviews Inc., 1955. pp.v,505. $7.50. *(C) 803*

FEATHERLY, H. I.

Taxonomic terminology of the higher plants. Ames, Iowa, Iowa State College Press, 1954. pp.x,166. $3.75. *(B) 804*

ROBINSON, *Sir* **R.**

The structural relations of natural products. Oxford, Clarendon Press, 1955. pp.xiii,150, tables, diagrs. bibliog. 25s. *Weizmann lectures, 1953.* *(C) 805*

PUBLIC HEALTH

GREAT BRITAIN. Ministry of Labour and National Service. Factory Department

Fencing and safety precautions for cotton spinning and weaving machinery: Part 2; Spinning, doubling and winding machinery. H.M.S.O., 1955. pp.[2],21, plates. 5s. *Safety pamphlet no. 5.* *(B) 806*

ENGINEERING

Mechanical

ADDISON, H.

Centrifugal and other rotodynamic pumps. 2nd ed. rev. and enlarged. C. & H., 1955. pp.x,530, tables, diagrs., bibliog. 50s. *(C) 807*

CHESTNUT, H., *and* **MAYER, R. W.**

Servomechanisms and regulating system design: Vol. 2. New York, Wiley; London, C. & H., 1955. pp.xiii,384. 68s. or $8.50. *General electric series.* *(C) 808*

HOLOWENKO, A. R.

Dynamics of machinery. New York, Wiley; London, C. & H., 1955. pp.vii,464, illus., tables, diagrs. 60s. or $7.50. *(B) 809*

"MACHINERY"

Screw thread book. 16th ed. re-arranged and re-written. London and Brighton, Machinery Publishing Co., 1955. pp.224, tables, diagrs. 10s. *(D) 810*

Electrical

CAMM, F. J., *ed.*

Practical wireless service manual: a complete work on the testing of all types of wireless receivers, and the construction and use of test instruments. 10th ed. Newnes, 1955. pp.290, illus., tables, diagrs. 17s. 6d. *(B) 811*

CATHODE RAY, *pseud.*

Second thoughts on radio theory. Iliffe, for *Wireless World*, 1955. pp.409, diagrs. 25s. *(A) 812*

GOLDING, E. W.

Electrical measurements and measuring instruments. 4th ed. Pitman, 1955. pp.xiii,913, illus., tables, diagrs., bibliogs. 40s. *Engineering degree series.* *(B) 813*

GOODLET, B. L.

Basic electrotechnics. 2nd ed. E. Arnold, 1955. pp.vii,277, tables, diagrs. 24s. *(B) 814*

SCOTT, T. R.

Transistors and other crystal valves. Macdonald & Evans, 1955. pp.xvi,258, front., plates, tables, diagrs., bibliog. 45s. *(B) 815*

WASS, C. A. A.

An introduction to electronic analogue computers. Pergamon Press, 1955. pp.x,237, plates, illus., diagrs., bibliog. 40s. *Pergamon science series; electronics and waves, general ed., D. W. Fry.* *(B) 816*

WORKSHOP PRACTICE

MONDAY, C.

Capstan and turret lathe practice. London, Brighton, Machinery Publishing Co., 1955. pp.199, illus., tables, diagrs. 17s. 6d. *Standard reference series.* *(B) 817*

OATES, J. A.

Welding and cutting: a practical handbook describing the welding and cutting of metals by the oxy-acetylene and metallic arc processes. P. Marshall, 1955. pp.[6],93, table, diagrs. 5s. *(B) 818*

HYDRAULIC

ADDISON, H.

Land, food and water: a topical commentary on the past, present and future of irrigation, land reclamation and the food supplies they yield. C. & H., 1955. pp.xii,248, maps, diagrs., bibliog. 18s. *(A/B) 819*

AERONAUTICAL

SUTTON, *Sir* **O. G.**

The science of flight. 2nd rev. and enlarged ed. Harmondsworth, Penguin Books, 1955. pp.231, plates, tables, diagrs., bibliog. 3s. 6d. *Pelican books, A.209.* *(A) 820*

AGRICULTURE

HORTICULTURE

SHEPARD, S.

Bibliography of current horticultural periodicals, 1954. Ithaca, N.Y., Bailey Hortorium, New York State College of Agriculture, 1955. pp.54. 50c. *(D) 821*

LIVESTOCK

ROY, J. H. B.

The calf: its management, feeding and health. Farmer & Stockbreeder Publications, 1955. pp.79, plates, tables, diagrs. 5s. *(B) 822*

SHEEHY, E. J.

Animal nutrition. Macmillan, 1955. pp.viii,732, illus., tables. 30s. *(B) 823*

TRANSPORT

LUCAS, W. E.

Eagle Fleet: the story of a tanker fleet in peace and war. Weidenfeld & Nicolson, 1955. pp.117, front., illus., maps. 9s. 6d. *(A) 824*

INDUSTRIAL ORGANIZATION

CAVE, S. R.

Budgetary control, standard costing and factory administration. Gee, 1955. pp.152, tables. 25s. *(B) 825*

OFFICE MANAGEMENT ASSOCIATION

The scope for electronic computers in the office. The Association, [1955]. pp.[6],102, illus., tables, diagrs. 15s. 'Papers produced for the National Conference of the O.M.A. at Brighton, May, 1955.' *(B) 826*

PATERSON, T. T.

Morale in war and work: an experiment in the management of men. Parrish, 1955. pp.256, tables, diagrs. 18s. *(B) 827*

CHEMICAL TECHNOLOGY

Food Technology

CUTTING, C. L.

Fish saving: a history of fish processing from ancient to modern times. L. Hill, 1955. pp.xv,372, front., illus., maps, tables, bibliogs. 42s. *(B) 828*

GREAT BRITAIN. Department of Scientific and Industrial Research

Scientific and technological problems involved in using ionizing radiations for the preservation of food; by R. S. Hannan. H.M.S.O., 1955. pp.viii, 192 illus., tables, diagrs., bibliogs. 7s. 6d. 'Special report no. 61.' *(B) 829*

Dyeing and Bleaching

LUBS, H. A., *ed.*

The chemistry of synthetic dyes and pigments. New York, Reinhold; London, C. & H., 1955. pp.xiv,734, tables, diagrs., bibliog. 148s. or $18.50. *American Chemical Society monograph series, no. 127.* 'A comprehensive, authoritative, up-to-date and thoroughly documentated account of the subject matter, including a short chapter on colour and constitution.' *(C) 830*

Metallurgy

DAWIHL, W.

A handbook of hard metals. H.M.S.O., for Department of Scientific and Industrial Research, 1955. pp.viii,162, plates, tables, diagrs., bibliogs. 25s. 'An abridged translation [from the German] of "Handbuch der Hartmetalle" '. *(B) 831*

SMITHELLS, C. J., *ed.*

Metals reference book. 2nd ed. Butterworth, 1955. 2v., illus., tables, diagrs., bibliogs. 168s. *(C) 832*

MANUFACTURES

Metals

PEARSON, T. G.

The chemical background of the aluminium industry. Royal Institute of Chemistry, 1955. pp.103, plates, illus., tables, diagrs. 6s. 6d. *Royal Institute of Chemistry; lectures, monographs and reports, 1955, no. 3.* *(C) 833*

PAPER

SUTERMEISTER, E.

The story of papermaking. New York, Bowker, 1954. pp.209, illus., diagrs. $5. *(A) 834*

TEXTILES

BELL, J. W.

Practical textile chemistry: with special reference to the structure, properties and processing of wool. National Trade Press, 1955. pp.xvi,259, plates, tables, diagrs., bibliog. 30s. *(B) 835*

COCKETT, S. R., *and* **HILTON, K. A.**

Basic chemistry of textile preparation. National Trade Press, 1955. pp.vii, 197, plates, tables, diagrs., bibliog. 21s. *(B) 836*

[See also *806*]

PHOTOGRAPHY

ASHTON, G.

Taking colour photographs. Fountain Press, 1955. pp.122, plates, illus., tables, diagrs. 12s. 6d. 'Intended primarily for the amateur who has some experience of black-and-white photography, and who is thinking of using colour films for the first time.' *(A) 837*

EMERALD, J.

Photographic make-up. 2nd ed. Fountain Press, 1955. pp.116, plates, illus., diagrs. 18s. 6d. *(B) 838*

GEOGRAPHY

CANADA. Department of Mines and Technical Surveys. *Geographical Branch*

Selected bibliography of Canadian geography with imprint 1953. Ottawa, the Branch, 1955. pp.iv,61. 50c. *Bibliographical series no. 14.* *(D) 839*

PEDLER, F. J.

Economic geography of West Africa. L.G., 1955. pp.xii,232, plates, maps, tables. 16s. *(B) 840*

UNITED STATES. Library of Congress. *Reference Department*

Introduction to Asia: a selective guide to background reading; prepared by L. K. Quan. Washington, the Library, 1955. pp.x,214. $1. 'For sale by U.S. Government Printing Office.' *(D) 841*

BIOGRAPHY

KEITH, *Sir* **A.**

Darwin revalued. Watts, 1955. pp.x,294, front., plates. 25s. *(B) 842*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 72
Agriculture, 72
Archaeology, 71
Astronomy, 69

Bibliography, 67
Biography, 74
Biology, 71
Botany, 71

Chemical technology, 73
Chemistry, 70

Directories and yearbooks, 68
Dyeing and bleaching, 73

Economics, 68
Education, 69
Electrical engineering, 71
Engineering, 71

Food Technology, 73

General science, 67
Geography, 74
Geology, 70

Horticulture, 72
Hydraulic engineering, 72

Industrial organization, 73

Librarianship, 67
Livestock, 72

Manufactures, 73
Mathematics, 69
Mechanical engineering, 71
Metallurgy, 73
Metals, 73

Paper, 74
Philology, 68
Photography, 74
Physics, 69
Psychology, 68
Public administration, 69
Public health, 71

Scientific research, 67
Social sciences, 68

Textiles, 74
Transport, 73

Workshop practice, 72

AUTHOR OR TITLE INDEX

Abraham, K., 776
Adams, F. D., 798
Addison, H., 807
Addison, H., 819
Alberty, R. A., 795
Arnon, D. T., *ed.*, 803
Arnot, R. P., 777
Ashton, G., 837
Association of Assistant Librarians, 765
Australia. Commonwealth Scientific and Industrial Research Organization, 793

Baratz, M. S., 778
Barnard, C. C., 766
Barnard, K. H., 801
Bell, J. W., 835
Blaauw, A., *ed.*, 786
Blackwood, O. H., 78
Bolt, R. H., 789
Brettell, R. G., *ed.*, 773
Brown, B. M., *comp.*, 768

Camm, F. J., *ed.*, 811
Canada. Department of Mines and Technical Surveys. Geographical Branch, 839
Canadian Association of British Manufacturers and Agencies, 772
'Cathode Ray', 812
Cave, S. R., 824
Chestnut, H., 808
Cockett, S. R., 836
Collison, R. L., 760
Commonwealth Scientific and Industrial Research Organization, 793
Conference on Glossary of Terms in Nuclear Science and Technology, 790
Crawford, A. E., 788
Cutting, C. L., 828

Daniels, F., 795
Dawihl, W., 831
Department of Scientific and Industrial Research, 829
Dow, V. M., *comp.*, 768
Dunk, P. M., *comp.*, 768

Emerald, J., 838

Faul, H., *ed.*, 799
Featherly, H. I., 804
Fondation Nationale des Sciences Politiques, 779
Foxon, D., 761
French teacher's year book, 773
Fry, D. W., *ed.*, 816

Garner, W. E., *ed.*, 794
Golding, E. W., 813
Goodlet, B. L., 814
Great Britain. Department of Scientific and Industrial Research, 829
Great Britain. Ministry of Labour and National Service. Factory Department, 806
Great Britain. Scottish Education Department, 782

Hannan, R. S., 829
Harvard University Library, 767
Hatt, H. H., *comp.*, 793
Hilton, K. A., 836
Holowenko, A. R., 809
Hoskins, W. G., 802
Hueter, T. F., 789

International Astronomical Union, 786
International Committee for Social Science Documentation, 779
International Economic Association, 779

Jones E., *ed.*, 776

Keith, *Sir* A., 842
Kendall, M. G., 785
Krause, W., 780

Landsberg, H. E., *ed.*, 800
Latimer, W. M., *ed.*, 797
Library Association of Australia. Special Libraries Section, 768
Library of Congress. Processing Department, 771
Library of Congress. Reference Department, 841
Library of Congress. Science Division, 764
London Library, 762
Lubs, H. A., *ed.*, 830
Lucas, W. E., 826

Macdonald, F. N., 765
"Machinery," 810
Machlis, L., *ed.*, 803
Masson, D. R., *ed.*, 774
Mayer, R. W., 808
Metcalf, K. D., 767
Ministry of Labour and National Service. Factory Department, 806
Moncay, C., 817
Mueller, H., 791

National Research Council. Conference on Glossary of Terms in Nuclear Science and Technology, 790

Oates, J. A., 818
Oeser, O. A., *ed.*, 783
Office Management Association, 825
Osborn, A. D., 769
Osgood, T. H., 787

Paterson, T. T., 827
Pauling, L., 796
Pearcey, T., *comp.*, 793
Pearson, T. G., 833
Peaslee, D. C., 791
Pedler, F. J., 840
Peierls, R. E., 792
Phillips, W. H., 770
Political and Economic Planning, 784
Pepper, M., *comp.*, 763

Quan, L. K., 841

Robinson, *Sir* R., 805
Roy, J. H. B., 822
Royals, E. E., 797
Ruark, A. E., 787

Scott T. R., 815
Scottish Education Department, 782
Sheehy, E. J., 823
Shepard, S., 821
Smithells, C. J., *ed.*, 832
South Africa. Council for Scientific and Industrial Research, 774
Sutermeister, E., 834
Sutton, *Sir* O. G., 820
Szumer, A. Z., *comp.*, 793

Thompson, A., 765

United States. Library of Congress. Processing Department, 771
United States. Library of Congress. Reference Department, 841
United States. Library of Congress. Science Division, 764

Walford, A. J., 765
Wass, C. A. A., 816
Wheare, K. C., 781
World of learning, 1955, 775

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 11
NOVEMBER 1955
Nos. 843-925

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

CALCUTTA UNIVERSITY CENTRAL LIBRARY

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629: 1950.

ASLIB BOOK-LIST

Volume 20 *Number 11* *November 1955*

GENERAL SCIENCE

RUSSELL, Sir E. J.

Science and modern life: the Beckly Lecture for 1955. Epworth Press, 1955. pp.101. 6s. 6d. *(A) 843*

SCIENTIFIC RESEARCH

[See *915* and *917*].

DOCUMENTATION

EMBERGER, M. R., *and* **HALL, M. R.**

Scientific writing; general ed., W. E. Britten. New York, Harcourt, 1955. pp.xii,468, tables, diagrs. $4.50. *(B) 844*

BIBLIOGRAPHY

BRITISH union-catalogue of periodicals: a record of the periodicals of the world, from the seventeenth century to the present day, in British libraries; ed. by J. D. Stewart, with M. E. Hammond and E. Saenger. Vol. 1, A-C. Butterworth, 1955. pp.xxxi,691. 230s. *(D) 845*

CORDEAUX, E. H., *and* **MERRY, D. H.**

A bibliography of printed works relating to Oxfordshire (excluding the University and City of Oxford). Oxford, Clarendon Press, for the Oxford Historical Society, 1955 (for 1949–1950). pp.xv,411. 42s. *Oxford Historical Society, new series, vol. 11.* *(D) 846*

UNITED STATES. Library of Congress. *Reference Department. General Reference and Bibliography Division*

Current national bibliographies; comp. by H. F. Conover. Washington, the Library, 1955. pp.v,132. 75 c. 'Obtainable from U.S. Government Printing Office.' *(D) 847*

[See also *855*, *865*].

LIBRARIANSHIP

ASSOCIATION OF RESEARCH LIBRARIES. Monticello Conference, *1954*

Problems and prospects of the research library; ed. by E. E. Williams. New Brunswick, N.J., Scarecrow Press; London, Bailey & Swinfen, 1955. pp.viii, 181. 31s. 6d. *(B) 848*

GEER, H. T.

Charging systems. Chicago, American Library Association, 1955. pp.xiii,177, illus., tables, diagrs. $3.75. *(B) 849*

LIBRARY ASSOCIATION. Reference and Special Libraries Section. *South Eastern Group*

Theatre collections: a symposium; ed. by A. M. C. Kahn. The Group, 1955. pp.29. 4s. 6d. *Library resources in the Greater London area, no. 4.* (*B*) *850*

MARSHALL, J. D., *and others*

Books, libraries, librarians: contributions to library literature; selected by J. D. Marshall, W. Shirley and L. Shores. Hamden, Conn., Shoe String Press, 1955. pp.xv,432. $6. (*B*) *851*

MINNESOTA. University. *Library School*

The use of books and libraries, by H. G. Russell, R. H. Shove, [and] B. E. Moon. 8th ed. Minneapolis, University of Minnesota Press; London, O.U.P., 1955. pp.v,93, diagrs. $1.50 or 12s. (*B*) *852*

SPECIAL LIBRARIES ASSOCIATION. Science-Technology Division

Libraries for research and industry: planning and equipment; ed. by M. P. Hilligan. New York, the Association, 1955. pp.58, illus., plans. $3. *Special Libraries Association monograph no. 1.* (*B*) *853*

SOCIAL SCIENCES

Economics

BEACHAM, A.

Economics of industrial organization. 3rd ed. Pitman, 1955. pp.viii,199, tables, bibliog. 16s. (*B*) *854*

JONES, T. B., *and others*

A bibliography on South American economic affairs; articles in nineteenth-century periodicals, by T. B. Jones, E. A. Warburton [and] A. Kingsley. Minneapolis, University of Minnesota Press; [London, O.U.P.], 1955. pp.xv,146. 44s. (*D*) *855*

MORGAN, E. V.

A first approach to economics. Pitman, 1955. pp.viii,456, tables. 20s. (*B*) *856*

[See also *904*]

International Organizations

CARNEGIE ENDOWMENT FOR INTERNATIONAL PEACE. International Conference of Institutes of International Affairs. 1953

Institutes and their publics; proceedings. New York, the Endowment, 1955. pp.viii,156, tables. $1.50. 'Available through Columbia University Press.' (*B*) *857*

EDUCATION

BAILEY, R. R.

The crisis of the rural school. National Society; S.P.C.K., 1955. pp.viii,9–87, table, bibliog. 3s. 6d. (*B*) *858*

LACK, A.

The teaching of language to deaf children, based on the natural development of the child. O.U.P., 1955. pp.xv,380, diagrs. 18s. (*B*) *859*

LONDON. University. Institute of Education. *Standing Sub-Committee in Geography*

Handbook for geography teachers; prepared by the Standing Sub-Committee in Geography; general editor G. J. Cons. Re-written and enlarged ed. Methuen, 1955. pp.xxiii,448, tables, bibliog. 12s. 6d. (*B*) *860*

LAUWERYS, J. A.
The enterprise of education. Ampersand, 1955. pp.64. 3s. 6d. *Bellman books, ed. by M. Goodwin, no. 12.* *(B) 861*

LOWNDES, G. A. N.
The British educational system. Hutchinson, 1955. pp.155, front., tables, bibliog. 8s. 6d. *University library, politics series, ed. by Professor G. D. H. Cole.* *(B) 862*

DICTIONARIES

BLACK, K.
Specialists' German vocabularies, professional, technical, commercial, etc. Pitman, 1955. pp.ix,189. 10s. 6d. *(D) 863*

UNITED STATES. Library of Congress. *Reference Department*
Foreign language-English dictionaries. Washington, the Library, 1955. 2v. (mimeographed). $3.50. 'Vol. 1: Special subject dictionaries with emphasis on science and technology. Vol. 2: General language dictionaries.' *(D) 864*

WÜSTER, E.
Bibliography of monolingual scientific and technical glossaries. Vol. 1; national standards. Paris, Unesco; [London, H.M.S.O.], 1955. pp.219. 14s. 6d., $2.50 or 700 fr. *Documentation and terminology of science.* *(D) 865*

MATHEMATICS

ALLENDOERFER, C. B., *and* **OAKLEY, C. O.**
Principles of mathematics. New York, London, McG.-H., 1955. pp.xv,448, tables, diagrs., bibliog. 37s. 6d. or $5. *(B) 866*

DANTZIG, T.
The bequest of the Greeks. A. & U., 1955. pp.191, illus., tables, diagrs. 18s. *(A) 867*

ASTRONOMY

ALLEN, C. W.
Astrophysical quantities. Athlone Press, 1955. pp.xi,263, tables, bibliogs. 55s. *(D) 868*

SIDGWICK, J. B.
Observational astronomy for amateurs. Faber, 1955. pp.358, tables, diagrs., bibliog 50s. *(B) 869*

PHYSICS

ALBADA, L. E. W. van
Graphical design of optical systems. Pitman, 1955. pp.v,153, tables, diagrs. 21s. *(B) 870*

PADGHAM, C. A.
Optics and sound. Pitman, 1955. pp.ix,434, plates, tables, diagrs. 16s. *Intermediate science series.* *(B) 871*

SHARPE, J.
Nuclear radiation detectors. Methuen, 1955. pp.[6],179, tables, diagrs., bibliogs. 11s. 6d. *Methuen's monographs on physical subjects; general editor, B. L. Worsnop.* *(B) 872*

[See also *874*]

METEOROLOGY

KRICK, I. P. *and* **FLEMING, R.**

Sun, sea and sky; weather in our world and in our lives. Gollancz, 1955. pp.248, plates, illus., maps, diagrs. 16s. *(A/B) 873*

PHYSICAL SOCIETY

The physics of the ionosphere: report of the Physical Society Conference held at the Cavendish Laboratory, Cambridge, September, 1954. The Society, 1955. pp.[4],406, illus., tables, diagrs., bibliogs. 40s. *(C) 874*

PALAEONTOLOGY

NEAVERSON, E.

Stratigraphical palaeontology: a study of ancient life provinces. 2nd ed. rev. and enlarged. Oxford, Clarendon Press, 1955. pp.xii,806, plates, illus., maps, bibliog. 105s. *(C) 875*

BIOLOGY

HARVEY, H. W.

The chemistry and fertility of sea waters. C.U.P., 1955. pp.viii,224, illus. 30s. *(C) 876*

ARCHAEOLOGY

BUSHNELL, G. H. S., *and* **DIGBY, A.**

Ancient American pottery. Faber, 1955. pp.xii,51, front., plates, maps, table. 35s. *Monographs on pottery and porcelain, ed. by W. B. Honey and A. Lane.* *(A) 877*

BOTANY

LEOPOLD, A. C.

Auxins and plant growth. Berkeley, Calif. University of California Press; London, C.U.P., 1955. pp.xi,354, illus. 37s. 6d. or $5. *(B) 878*

MATTHEWS, J. R.

Origin and distribution of the British flora. Hutchinson, 1955. pp.173, maps, tables, bibliog. 8s. 6d. *University library, biological sciences series, ed. by Professor H. M. Fox.* *(A/B) 879*

SINNOTT, E. W., *and* **WILSON, K. S.**

Botany: principles and problems. 5th ed. New York, London, McG.-H., 1955. pp.x,528, front., illus., tables, diagrs 48s. 6d. or $6.75. *Publications in the botanical sciences, ed. by E. W. Sinnott.* *(B) 880*

ZOOLOGY

BERRILL, N. J.

The origin of vertebrates. Oxford, Clarendon Press, 1955. pp.viii,257, illus., tables, bibliog. 25s. *(C) 881*

CROWSON, R. A.

The natural classification of the families of coleoptera. N. Lloyd, 1955. pp.187, illus. 36s. *(B) 882*

EVANS, W. H.

A catalogue of the American Hesperiidae indicating the classification and nomenclature adopted in the British Museum (Natural History): Part IV, (groups H to P) Hesperiinae and Megathyminae. British Museum (Natural History), 1955. pp.v,499, plates. 80s. *(C) 883*

HURD, P. D., *and* **MICHENER, C. D.**

The megachiline bee of California. Los Angeles, California University Press, 1955. pp.iv,247, illus., maps. $3.50. *Bulletin of the California Insect Survey, no. 3.* (C) *884*

LANE, F. W.

Nature parade. 4th ed. rev. Jarrolds, 1955. pp.288, front., plates, tables. 18s. (A) *885*

LEES, A. D.

The physiology of diapause in arthropods. Cambridge, C.U.P., 1955, pp.x,151, illus., tables, diagrs., bibliog. 12s. 6d. *Cambridge monographs in experimental biology ed. by M. Abercrombie and others.* (C) *886*

MACKWORTH-PRAED, C. W., *and* **GRANT, C. H. B.**

Birds of Eastern and North Eastern Africa. Vol. 2. L.G., 1955. pp.viii,1099, plates, illus., maps, tables. 45s. *African handbook of birds, series 1.* (C) *887*

PRITCHARD, A. E., *and* **BAKER, E. W.**

A revision of the spider mite family Tetranychidae. San Francisco, Pacific Coast Entomological Society, 1955. pp.viii,472, plate, illus. 82s. *Memoir series, vol. 2.* (B) *888*

PUBLIC HEALTH

RUSSELL, P. F.

Man's mastery of malaria. O.U.P., 1955. pp.xv,308, front., plates, tables, bibliog. 25s. *Heath Clark lectures, 1953.* (B) *889*

ENGINEERING

MECHANICAL

McCAULLY, C. H. A.

The chain testers handbook (a manual for the man at the bench); by C. H. A. McCaully on behalf of the Technical Committee of the Chain Testers' Association of Great Britain; with a foreword by W. Brundett. Chain Testers' Association of Great Britain, 1955. pp.ix,210, illus., tables, diagrs. 25s. (B) *890*

STEPANOFF, A. J.

Turboblowers: theory, design and application of centrifugal and axial flow compressors and fans. New York, Wiley; London, C. & H., 1955. pp.ix,377, illus., tables, diagrs. 64s. or $8. (C) *891*

WESTCOTT, G. F., *comp.*

Classified lists of historical events: mechanical and electrical engineering. H.M.S.O., for the Science Museum, 1955. pp.iv,40, bibliog. 2s. (D) *892*

ELECTRICAL

BUCKINGHAM, H., *and* **PRICE, E. M.**

Principles of electrical measurements. English Universities Press, 1955. pp.xxiii,600, illus., tables, diagrs. 37s. 6d. (B) *893*

RETTINGER, M.

Practical electroacoustics. Thames & Hudson, 1955. pp.271, illus., tables, diagrs., bibliog. 63s. (B) *894*

SPREADBURY, E. A. W.

FM explained: a simple explanation of the principles of frequency modulation. Trader Publishing Co., 1955. pp.37, illus., diagrs. 2s. 6d. 'Articles reprinted from *Wireless & Electrical Trader.*' (C) *895*

SPREADBURY, E. A. W.

Television receiver servicing; Vol. 2, Receiver and power supply circuits. Trader Publishing Co. for *Wireless & Electrical Trader*, 1955. pp.308,ix, illus., tables, diagrs. 21s. *(B) 896*

[See also *892*]

INTERNAL COMBUSTION

SMITH, G. G.

Gas turbines and jet propulsion. 6th ed. rev. and enl. by F. C. Sheffield. Iliffe, for *Flight*, 1955. pp.412, illus., tables, diagrs. 35s. *(B) 897*

WELSH, R. J., *and* **WALLER, G.**

The gas turbine manual. 2nd ed. Temple Press, 1955. pp.vii,279, illus., tables, diagrs., bibliog. 30s. *(C) 898*

MARINE

COUNCIL ON WAVE RESEARCH *and* **SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS**

Proceedings of the First Conference on Ships and Waves. New York, Council on Wave Research and Society of Naval Architects and Marine Engineers, 1955. pp.509, illus., diagrs. $6. *(C) 899*

CIVIL

FABER, O.

Constructional steelwork. Spon, 1955. pp.xxiii,368, front., tables, diagrs., 50s. *Spon's architectural and building series.* *(B) 900*

GREAT BRITAIN. Building Research Station

Analysis of symmetric cylindrical shells: its application to civil engineering design; by J. McNamee. H.M.S.O., 1955. pp.vi,85, tables, diagrs., bibliogs. 12s. 6d. *(B) 901*

AUTOMOBILE

MOLLOY, E., *ed.*

Automobile diesel engines: commercial and passenger vehicles. Newnes, 1955. pp.vii,216, illus., tables, diagrs. *(B) 902*

AERONAUTICAL

SCHLICHTING, H.

Boundary layer theory: trans. from the German by J. Kestin. London, Pergamon Press; Karlsruhe, G. Braun, 1955. pp.xx,535, illus., tables, diagrs., bibliog. 105s. *(C) 903*

AGRICULTURE

MIGHELL, R. L.

American agriculture: its structure and place in the economy; by R. L. Mighell for the Social Science Research Council in co-operation with the U.S. Department of Agriculture, Agricultural Research Service and the U.S. Department of Commerce, Bureau of the Census. New York, Wiley; London, C. & H., 1955. pp.xii,187, maps, tables, diagrs., bibliog. 40s. or $5. *(B) 904*

SOILS

FREVERT, R. K., *and others*

Soil and water conservation engineering. New York, Wiley; London, C. & H., 1955. pp.xiii,479, illus., maps, tables, diagrs., bibliog. 64s. or $8. *Ferguson Foundation agricultural engineering series.* *(C) 905*

CROPS

HAYES, H. K., *and others*

Methods of plant breeding, by H. K. Hayes, F. R. Immer, [and] D. C. Smith. 2nd ed. New York, London, McG.-H., 1955. pp.xi,551, illus., tables, diagrs., bibliog. 61s. or $8.50. *McGraw-Hill publications in the agricultural sciences, ed. by R. A. Brink.* *(B) 906*

SERVISS, G. H., *and* **AHLGREN, G. H.**

Grassland farming. New York, Wiley; London, C. & H., 1955. pp.146, plates, illus., tables, diagrs., bibliog. 24s. or $3. *Farm series.* *(B) 907*

HORTICULTURE

ADRIANCE, G. W., *and* **BRISON, F. R.**

Propagation of horticultural plants. 2nd ed. New York, London, McG.-H., 1955. pp.ix.298, front., illus., bibliog. 49s. or $6.50. *McGraw-Hill publications in the agricultural sciences, ed. by R. A. Brink.* *(B) 908*

ROYAL HORTICULTURAL SOCIETY

Classified list of daffodil names, with particulars of the Society's classification of daffodils and arrangements for the registration of daffodil names. The Society, 1955. pp.281. 5s. *(D) 909*

SHOEMAKER, J. S., *and* **TESKEY, B. J. E.**

Practical horticulture. New York, Wiley; London, C. & H., 1955. pp.vii,374, plates, illus., bibliog. 34s. or $4.25. *Farm series.* *(B) 910*

WORK, P., *and* **CAREW, J.**

Vegetable production and marketing. 2nd ed. New York, Wiley; London, C. & H., 1955. pp.x,537, illus., map, tables, diagrs., bibliog. 38s. or $4.75. *(B) 911*

LIVESTOCK

FUNK, E. M., *and* **IRWIN, M. R.**

Hatchery operation and management. New York, Wiley; London, C. & H., 1955. pp.vii,349, illus., tables, diagrs., bibliog. 52s. or $6.50 *(B) 912*

DAIRYING

DONALDSON, F.

Milk without tears: the essentials of dairy farming. Faber, 1955. pp.192, plates, table, bibliog. 16s. *(A) 913*

TRANSPORT

COZENS, L. *comp.*

The Plynlimon and Hafan Tramway. 25 Cholmeley Crescent, London, N.6, L. Cozens, 1955. pp.32, illus., maps, tables, bibliog. 5s. *(A) 914*

INDUSTRIAL ORGANIZATION

COLUMBIA UNIVERSITY. Department of Industrial Engineering. *Annual Conference on Industrial Research, 5th, 1954*

Co-ordination, control, and financing of industrial research; proceedings, with selected papers from the Fourth Conference, 1953; ed. by A. H. Rubenstein. New York, King's Crown Press; [London, O.U.P.], 1955. pp.xviii,429, tables, diagrs. $8.50 or 68s. *(B) 915*

OFFICE MANAGEMENT ASSOCIATION. Organization and Methods Study Group

Form design; a report. The Association, 1955. pp.[8],31, facsims., tables, diagrs. 6s. *(B) 916*

ORGANIZATION FOR EUROPEAN ECONOMIC CO-OPERATION. European Productivity Agency

The organization of applied research in Europe; proceedings of the conference held at Nancy, 11th–13th October, 1954. Paris, O.E.E.C.; [London, H.M.S.O.], 1955. pp.258, tables, diagrs. 12s., $2, 600 fr. *Project no. 191.* *(B) 917*

[See also *854, 924*]

CHEMICAL TECHNOLOGY

BOGUE, R. H.

The chemistry of Portland cement. 2nd ed. New York, Reinhold; London, C. & H., 1955. pp.xix,793, front., illus., tables, diagrs., bibliog. 132s. or $16.50. *(C) 918*

FUEL TECHNOLOGY

WORLD POWER CONFERENCE. British National Committee

Technical data on fuel; ed. by H. M. Spiers. 5th ed. rev. and enl. 201 Grand Buildings, Trafalgar Square, London, W.C.2, British National Committee, World Power Conference, 1955. pp.xv,517, plates, tables, diagrs., bibliog. 25s. *(B) 919*

FOOD TECHNOLOGY

LOWE, B.

Experimental cookery from the chemical and physical standpoint. 4th ed. New York, Wiley; London, C. & H., 1955. pp.[9],573, illus., tables, diagrs., bibliog. 60s. or $7.50. *Home economics series.* *(B) 920*

MANUFACTURES

METALS

BURNS, R. M., *and* BRADLEY, W. W.

Protective coatings for metals. 2nd ed. New York, Reinhold; London, C. & H., 1955. pp.xiv,643, illus., tables, diagrs., bibliog. 96s. or $12. *American Chemical Society monographs, no. 129.* *(B) 921*

LEATHER

THORNTON, J. H., *ed.*

Textbook of footwear materials. National Trade Press, 1955. pp.xii,474, illus., tables, diagrs., bibliog. 45s. *(B) 922*

TEXTILES

NEEDHAM, H.

Practical drawing and spinning on the continental system. National Trade Press, 1955. pp.x,134, front., illus., tables diagrs., bibliog. 12s. 6d. *Textile machinery series; gen. ed. P. P. Townend.* *(B) 923*

OSTICK, E.

Textiles for salesmen. 7th ed. Pitman, 1955. pp.viii,232, illus., tables, diagrs. 18s. *(B) 924*

ARCHITECTURE

[See *901*]

PHOTOGRAPHY

PHOTOGRAPHIC DEALERS' ASSOCIATION

The photographic dealer's pocketbook. Focal Press, 1955. pp.288, diagrs., tables. 10s. *(D) 925*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 80
Agriculture, 80
Archaeology, 78
Architecture, 82
Astronomy, 77
Automobile, 80

Bibliography, 75
Biology, 78
Botany, 78

Chemical technology, 82
Civil engineering, 80
Crops, 81

Dairying, 81
Dictionaries, 77
Documentation, 75

Economics, 76
Education, 76
Electrical engineering, 79
Engineering, 79

Food technology, 82
Fuel technology, 82

General science, 75

Horticulture, 81

Industrial organization, 81
Internal combustion, 80
International organizations, 76

Leather manufactures, 82
Librarianship, 75
Livestock, 81

Manufactures, 82
Marine engineering, 80
Mathematics, 77
Mechanical engineering, 79
Metal manufactures, 82
Meteorology, 78

Palaeontology, 78
Photography, 82
Physics, 77
Public health, 79

Scientific research, 75
Social sciences, 76
Soils, 80

Textiles, 82
Transport, 81

Zoology, 78

AUTHOR OR TITLE INDEX

Adriance, G. W., 908
Ahlgren, G. H., 907
Albada, L. E. W. van, 870
Allen, C. W., 868
Allendoerfer, C. B., 866
Association of Research Libraries. Monticello Conference, 1954, 848
Bailey, R. R., 858
Baker, E. W., 889
Beacham, A., 854
Berrill, N. J., 881
Black, K., 863
Bogue, R. H., 918
Bradley, W. W., 921
Brison, F. R., 908
British union-catalogue of periodicals, 845
Britten, W. E., *ed.*, 844
Buckingham, H., 893
Building Research Station, 901
Burns, R. M., 921
Bushnell, G. H. S., 877
Carew, J., 911
Carnegie Endowment for International Peace, 857
Chain Testers' Association of Great Britain. Technical Committee, 890
Columbia University. Department of Industrial Engineering, 915
Conover, H. F., *comp.*, 847
Cons, G. J., *ed.*, 860
Cordeaux, E. H., 846
Council on Wave Research, 899
Cozens, L., *comp.*, 914
Crowson, R. A., 882
Dantzig, T., 867
Digby, A., 877
Donaldson, F., 913
Emberger, M. R., 844
European Productivity Agency, 917
Evans, W. H., 883
Faber, O., 900
Fleming, R., 873
Frevert, R. K., 905
Funk, E. M., 912
Geer, H. T., 849
Grant, C. H. B., 887
Great Britain. Building Research Station, 901
Hall, M. R., 844
Hammond, M. E., *ed.*, 845
Harvey, H. W., 876
Hayes, H. K., 906
Hilligan, M. P., 853
Hurd, P. D., 884
Immer, F. R., 906
International Conference of Institutes of International Affairs, 1953, 857
Irwin, M. R., 912
Jones, T. B., 855
Kahn, A. M. C., *ed.*, 850
Kestin, J., *trans.*, 903
Kingsley, A., 855
Krick, I. P., 873
Lack, A., 859
Lane, F. W., 885
Lauwerys, J. A., 861
Lees, A. D., 886
Leopold, A. C., 878
Library Association. Reference and Special Libraries Section, 850
Library of Congress. Reference Department, 847, 864
London. University. Institute of Education. Standing Sub-Committee in Geography, 860
Lowe, R., 920
Lowndes, G. A. N., 862
McCaully, C. H. A., 890
Mackworth-Praed, C. W., 887
McNamee, J., 901
Marshall, J. D., 851
Matthews, J. R., 879
Merry, D. H., 846
Michener, C. D., 884
Mighell, R. L., 904
Minnesota. University. Library School, 852
Molloy, E., *ed.*, 902
Monticello Conference, 1954, 848
Moore, B. E., 852
Morgan, E. V., 856
Neaverson, E., 875
Needham, H., 923
Oakley, C. O., 866
Office Management Association. Organization and Methods Study Group, 916
O.E.E.C. European Productivity Agency, 917
Ostick, E., 924
Padgham, C. A., 871
Photographic Dealers' Association, 925
Physical Society, 874
Praed, C. W., Mackworth-, 887
Price, E. M., 893
Pritchard, A. E., 889
Rettinger, M., 894
Royal Horticultural Society, 909
Rubenstein, A. H., *ed.*, 915
Russell, *Sir* E. J., 843
Russell, H. G., 852
Russell, P. F., 889
Saenger, E., *ed.*, 845
Schlichting, H., 903
Servis, G. H., 907
Sharpe, J., 872
Sheffield, F. C., *ed.* 897
Shirley, W., 851
Shoemaker, J. S., 910
Shores, L., 851
Shove, R. H., 852
Sidgwick, J. B., 869
Sinnott, E. W., 880
Smith, D. C., 906
Smith, G. G., 897
Social Science Research Council, 904
Society of Naval Architects and Marine Engineers, 899
Special Libraries Association. Science-Technology Division, 853
Spier, H. M., *ed.*, 919
Spreadbury, E. A. W., 895, 896
Stepanoff, A. J., 891
Stewart, J. D., *ed.*, 845
Teskey, B. J. E., 910
Thornton, J. H., *ed.*, 922
United States Department of Agriculture. Agricultural Research Service, 904
United States Department of Commerce. Bureau of the Census, 904
United States. Library of Congress. Reference Department, 847, 864
van Albada, L. E. W. 870
Walker, G., 898
Warburton, E. A., 855
Welsh, R. J., 898
Westcott, G. F., *comp.*, 892
Williams, E. E., *ed.*, 848
Wilson, K. S., 880
Worth, P., 911
World Power Conference. British National Committee, 919
Wilmer, E., 865

ASLIB BOOK-LIST

MONTHLY RECOMMENDATIONS OF RECENTLY PUBLISHED SCIENTIFIC AND TECHNICAL BOOKS

VOLUME 20 NUMBER 12
DECEMBER 1955
Nos. 926-1010

Aslib members: 12s. p.a.
Non-members : 21s. p.a.

Aslib
4 PALACE GATE, LONDON, W.8

PREFACE

THE main object of this monthly list is to provide libraries with a list of selected recent scientific and technical books. The selection has been made by those with special knowledge of the subjects. It is not claimed that the list is exhaustive and it is hoped that the range of subjects will gradually be extended.

The aim of the Publications Committee has been to secure the help of individuals and specialist organizations who are, for their own purposes, making as complete a survey as possible of the literature in their own fields and who are able to assess the relative merits of new publications. This object has already been largely achieved: over seventy specialist organizations are generously helping Aslib in this way.

The notes in inverted commas are quoted from reviews or from the recommending experts; those in square brackets are amplifications of the title compiled in the Aslib office from information supplied by the publishers.

Only books in the English language and, with few exceptions, those published within the previous six months, have been included. The limitation with regard to date, however, has been stretched sometimes in the case of books published abroad or those on very specialized subjects.

The place of publication is London unless otherwise stated.

The regular transactions of societies are not included. Nor are British Standard Specifications (except bound volumes). Any inquiry regarding these should be made direct to the B.S.I., 2 Park Street, London, W.1.

The works recommended are set out for convenience under broad main headings following the order of the Universal Decimal Classification and are further classified by the following symbols:

(*A*) Books suitable for general readers, or books treating the subject in an introductory, elementary or general manner.

(*B*) Books of an intermediate degree of technicality or suitable as textbooks for students.

(*C*) Books of an advanced or specially technical character.

(*D*) Directories, dictionaries, handbooks, lists and catalogues, encyclopædias, year-books, and similar publications.

A title-page, classified table of contents, and index are issued with the last number of each volume.

The form of entry of references has been altered to comply with British Standard Specification 1629: 1950.

ASLIB BOOK-LIST

Volume 20 *Number 12* *December 1955*

GENERAL SCIENCE

THOMSON, *Sir* **G.**

The foreseeable future. C.U.P., 1955. pp.vii,166, table. 10s. 6d. *(A) 926*

DOCUMENTATION

DOSS, M. P.

Information processing equipment. New York, Reinhold; [London, C. & H.], 1955. pp.vii,270, illus., tables, diagrs. $8.75 or 70s. *(B)* 927

LOCKE, W. N., *and* **BOOTH, A. D.,** *eds.*

Machine translation of languages; fourteen essays. New York, Technology Press and Wiley; London, C. & H., 1955. pp.xii,243, tables, diagrs. $6 or 48s. *Technology Press books in the social sciences.* *(C) 928*

BIBLIOGRAPHY

INTERNATIONAL ASSOCIATION FOR RESEARCH IN INCOME AND WEALTH

Bibliography on income and wealth, vol. V: 1952; ed. by P. Deane. Bowes & Bowes, 1955. pp.ix,80. 37s. 6d. *Annotated international bibliographies on income and wealth, vol. 5.* *(D) 929*

UNITED NATIONS. Economic Commission for Europe. *Industry Division.*

Efficient use of fuels: bibliographical index. Geneva, United Nations, 1955. pp.17, mimeographed. 25 c. or 1s. 9d. 'List of abstract journals and journals containing abstracts on the subject.' *(D) 930*

UNITED STATES. Library of Congress.

British manuscripts project: a checklist of the microfilms prepared in England and Wales for the American Council of Learned Societies 1941–1945; comp. by L. K. Born. Washington, the Library, 1955. pp.xvii,179. $2. 'Obtainable from Photoduplication Service.' *(D) 931*

WAYNE, J. M.

Indexing, with emphasis on its technique: an annotated bibliography 1939–1954; comp. by J. M. Wayne. New York. Special Libraries Association, 1955. pp.16, mimeographed. 50 c. *(D) 932*

[See also *933*]

LIBRARIANSHIP

POSTELL, W. D.

Applied medical bibliography for students. Springfield, Ill., Thomas; Oxford, Blackwell, 1955. pp.xi,142, plate, facsims., diagrs. 32s. 6d. *American lecture series no. 259, the Bannerstone division of American lectures in internal medicine.* *(B) 933*

STANDING COMMITTEE ON EDUCATION IN LIBRARIANSHIP

Notes for tutors; general ed. R. C. Benge. The Committee, 1955. 3 v. 4s. 6d. 'Subjects: Classification and cataloguing; Assistance to readers; Organisation and administration.' *(C) 934*

STOTT, C. A.

School libraries: a short manual. 2nd ed. C.U.P., for School Library Association and National Book League, 1955. pp 148, front. 10s. 6d. *(A) 935*

[See also *932*]

DIRECTORIES AND YEARBOOKS

EDUCATION committees year book: published by 'Education', the official organ of the Association of Education Committees; 1955–56. Councils and Education Press, 1955. pp.639, tables. 25s. *(D) 936*

SKILTON, Charles, Ltd.

Directory of printers', bookbinders' and allied trades' suppliers, classifying suppliers of machinery, accessories and materials throughout the British Isles and including a trade work section; 1955–1956. Skilton, 1955. pp.xiv,925, bibliog. 21s. *(D) 937*

PHILOSOPHY

BRAITHWAITE, R. B.

Theory of games as a tool for the moral philosopher: an inaugural lecture delivered in Cambridge on 2 December, 1954. Cambridge, C.U.P., 1955. pp.76, diagrs. 6s. *(A) 938*

SOCIAL SCIENCES

INTERNATIONAL INSTITUTE OF DIFFERING CIVILIZATIONS

International guide to study centres on civilizations and their publications. Bruxelles, The Institute, 1955. pp.156. 15s. 'English representative, E. S. Tew, 91 Lyndhurst Gdns., London, N.3.' *(B) 939*

ECONOMICS

CARTTER, A. M.

The redistribution of income in postwar Britain: a study of the effects of the central government fiscal program in 1948–49. New Haven, Conn., Yale University Press; London, O.U.P., 1955. pp.11,242, tables, bibliog. 40s. or $6.25. *Yale studies in economics, vol. 3.* *(B) 940*

GALENSON, W.

Labor productivity in Soviet and American industry. New York, Columbia University Press; London, O.U.P., 1955. pp.xiv,273, tables, bibliog. 45s. or $6.50. *Rand Corporation. Research studies.* *(C) 941*

GOLDSMITH, R. W.

A study of saving in the United States. Princeton, N.J., Princeton University Press; London, O.U.P., 1955. 2 v., tables, diagrs. 240s. or $30. 'To be completed in 3 volumes. Vol. 1, Introduction, tables of annual estimates of saving, 1897 to 1949. Vol. 2, Nature and derivation of annual estimates of saving, 1897 to 1949.' *(C) 942*

HOFFMAN, W. G.

British industry, 1700–1950; translated [from the German] by W. O. Henderson [and] W. H. Chaloner. Oxford, Blackwell, 1955. pp.xxiii,338, plates, tables, diagrs. 35s. *(C) 943*

LEWIS, W. A.

The theory of economic growth. A. & U., 1955. pp.454, bibliog. 30s. *(B) 944*

LYDALL, H. F.

British incomes and savings. Oxford, Blackwell, 1955. pp.xvi,274, illus., tables, diagrs. 32s. 6d. *Oxford. University. Institute of Statistics. Monographs, no. 5.* (C) *945*

PRAIS, S. J., *and* **HOUTHAKKER, H.**

The analysis of family budgets, with an application to two British surveys conducted in 1937–9 and their detailed results. Cambridge, C.U.P., 1955. pp.xx,372, tables, diagrs., bibliog. 50s. *Cambridge. University. Department of Applied Economics monographs, No. 4.* (B) *946*

INSURANCE

MORRAH, D.

A history of industrial life assurance. A. & U., 1955. pp.243, tables. 15s. (A) *947*

EDUCATION

JACKS, M. L.

The education of good men. Gollancz, 1955. pp.192. 13s. 6d. (B) *948*

JUDGES, A. V., *ed.*

Looking forward in education. Faber, 1955. pp.173, tables. 10s. 6d. (B) *949*

SIMON, B.

The common secondary school. Lawrence & Wishart, 1955. pp.176, bibliog. 9s. 6d. (A) *950*

WHILDE, N. E.

The application of psychological tests in schools. Blackie, 1955. pp.xi,179. 9s. *Technique of teaching series.* (B) *951*

[See also *934* and *936*]

MATHEMATICS

CARTWRIGHT, M. L.

The mathematical mind; the James Bryce Memorial Lecture, 1955. Oxford, G. Cumberlege, 1955. pp.27. 2s. 6d. (A) *952*

CODDINGTON, E. A., *and* **LEVINSON, N.**

Theory of ordinary differential equations. New York, London, McG.-H., 1955. pp.xiii,429, diagrs., bibliog. 64s or $8.50. *International series in pure and applied mathematics, ed. by W. T. Martin.* (C) *953*

RICHARDS, R. K.

Arithmetic operations in digital computers. New York, Van Nostrand, London, Macmillan, 1955. pp.v,397, tables, diagrs., bibliog. 52s. 6d. or $7.50. (C) *954*

[See also *938*]

ASTRONOMY

ELLISON, M. A.

The sun and its influence: an introduction to the study of solar-terrestrial relations. Routledge & K. Paul, 1955. pp.xii,235, front., plates, map, diagrs., bibliog. 21s. (B) *955*

SYMPOSIUM ON METEOR PHYSICS, 1954, Jodrell Bank Experimental Station.

Meteors; ed. by T. R. Kaiser. Pergamon Press, 1955. pp.vii,204, front., plates, tables, diagrs., bibliog. 55s. *'Journal of Atmospheric and Terrestrial Physics' special supplements, vol. 2.* (C) *956*

[See also *1004*]

PHYSICS

BLÜH, O., *and* **ELDER, J. D.**

Principles and applications of physics. London & Edinburgh, O. & B., 1955. pp.xiv,866, plates, tables, diagrs. 45s. *(B) 957*

FEENBERG, E.

Shell theory of the nucleus. Princeton, Princeton University Press, 1955. pp.221, illus. $4. *Investigations in physics, no. 3.* *(C) 958*

HAUSNER, H. H., *and* **ROBOFF, S. B.**

Materials for nuclear power reactors; foreword by T. K. Glennan. New York, Reinhold; London, C. & H., 1955 pp.17,224, illus., tables. 28s. or $3.50. *(A) 959*

LITTLER, D. J., *and* **RAFFLE, J. F.**

An introduction to reactor physics. Pergamon Press, for the United Kingdom Atomic Energy Authority, 1955. pp.viii,197, tables, diagrs. 25s. *(B) 960*

PAULI, W., *and others, eds.*

Niels Bohr and the development of physics: essays dedicated to Niels Bohr on the occasion of his seventieth birthday; ed. by W. Pauli, with the assistance of L. Rosenfeld and V. Weisskopf. Pergamon Press, 1955. pp.vii,195, front., table, diagrs., bibliogs. 30s. *(C) 961*

SLATER, J. C.

Modern physics. New York, London, McG.-H., 1955. pp.xi,322, illus., tables, diagrs., bibliog. 39s. 6d. or $5.50. *(B) 962*

SMITH, K. F.

Molecular beams. London, Methuen; New York, Wiley, 1955. pp.x,133, tables, diagrs. 8s. 6d. *Methuen's monographs on physical subjects.* *(C) 963*

STURROCK, P. A.

Static and dynamic electron optics: an account of focussing in lens, deflector and accelerator. Cambridge, C.U.P., 1955. pp.x,240, tables, diagrs., bibliog. 30s. *Cambridge monographs on mechanics and applied mathematics: general eds., G. K. Batchelor and H. Bondi.* *(C) 964*

WOOD, D. R. J.

An introduction to electronics. Dent, 1955. pp.xv,192, plates, illus., tables, diagrs., bibliog. 12s. 6d. *(B) 965*

CHEMISTRY

SCHMIDT, J.

Organic chemistry. 7th ed. rev. and enl. by N. Campbell. London, Edinburgh, O. & B., 1955. pp.xiv,936, tables, diagrs. 35s. 'Important recent developments are included, especially those of a general and fundamental nature.' *(B) 966*

METEOROLOGY

STÖRMER, F. C. M.

The polar aurora. Oxford, Clarendon Press, 1955. pp.xix,403, plates, maps, tables, diagrs., bibliog. 55s. *International monographs on radio, ed. by Sir Edward Appleton and R. L. Smith-Rose.* *(B/C) 967*

ZOOLOGY

SKAIFE, S. H.

Dwellers in darkness: an introduction to the study of termites; illus. by the author. L.G., 1955. pp.x,134, plates, illus., table, bibliog. 25s. *(A) 968*

[See also *985*]

PUBLIC HEALTH

[See *1002*]

PHARMACY

BARLOW, R. B.
Introduction to chemical pharmacology; with a foreword by H. R. Ing. London, Methuen; New York, Wiley, 1955. pp.xiv,343, illus., tables, diagrs., bibliog. 35s. *(B) 969*

GARRATT, D. C.
The quantitative analysis of drugs. 2nd ed. rev. and enl. C. & H., 1955. pp.xv,670, tables, diagrs. 70s. *(B) 970*

SQUIRE, J. R., *and others.*
Dextran: its properties and use in medicine. Oxford, Blackwell, 1955. pp.vii,91, tables, diagrs., bibliog. 15s. *(B) 971*

WALLIS, T. E.
Textbook of pharmacognosy. 3rd ed. Churchill, 1955. pp.xi,578, illus., bibliog. 42s. *(B) 972*

VETERINARY SCIENCE

ANTHONY, D. J.
Diseases of the pig and its husbandry. 4th ed. Baillière, Tindall & Cox, 1955. pp.xi,369, illus., tables, diagrs., bibliog. 25s. *(B) 973*

ENGINEERING

GREEN, W. G.
Theory of machines. London, Glasgow, Blackie, 1955. pp.xxi,1034, tables, diagrs. 40s. *(B) 974*

YARWOOD, J.
High vacuum technique: theory, practice, industrial applications and properties of materials. 3rd rev. ed. C. & H., 1955. pp.viii,208, front., illus., tables, diagrs., bibliog. 25s. *(C) 975*

Testing Materials

INSTITUTION OF METALLURGISTS
The inspection and testing of metals: lectures delivered at the Institution's Refresher Course, 1954. The Institution, 1955. pp.120, illus., tables, diagrs. 15s. 6d. *(B) 976*

Steam

FRANCIS, W.
Boiler house and power station chemistry. 3rd ed. E. Arnold, 1955. pp.xii,348, front., illus., tables, diagrs. 50s. *(B/C) 977*

Electrical

CARR, T. H.
Electric power stations. Vol. 2. 4th ed. rev. enlgd. C. & H., 1955. pp.xvi,832, plates, illus., tables, diagrs. 80s. *(B) 978*

Workshop Practice

RILEY, M. W.
Plastics tooling. New York, Reinhold; London, C. & H., 1955. pp.[11],123, illus., bibliog. 20s. or $2.50. *Pilot books, no. 6.* *(B) 979*

MINING

PRYOR, E. J.

An introduction to mineral dressing. Mining Publications, 1955. pp.xii,649, illus., tables, diagrs., bibliog. 70s. *(B) 980*

MARINE

BLAIR, C.

The atomic submarine. Odhams Press, 1955. pp.224, front., plates. 12s. 6d. *(B) 981*

NEWTON, R. N.

Practical construction of warships. 2nd ed L.G., 1955. pp.xx,464, front., plate, plans, diagrs. 50s. *(C) 982*

AERONAUTICAL

STILLSON, B.

Wings: insects, birds, men; drawings by K. Gosner. Gollancz, 1955. pp.299, illus., bibliog. 16s. *(A) 983*

AGRICULTURE

BENEKE, R. R.

Managing the farm business. New York, Wiley; London, C. & H., 1955. pp.vii,464, illus., maps, tables, diagrs., bibliog. 32s. or $4. *Farm series.* *(B) 984*

GUNSTON, J.

The farmers' and farm students' handbook. Odhams, 1955. pp.320, tables. 18s. *(B) 985*

[See also 1001]

MACHINERY

SEATRAIL, *pseud.*

First steps in farm engineering. Farmer & Stockbreeder Publications, 1955. pp.136, illus., tables, diagrs. 7s. 6d. *Farmer & Stockbreeder manuals.* *(B) 986*

PESTS

MUENSCHER, W. C. L.

Weeds. 2nd ed. New York, London, Macmillan, 1955. pp.xvi,560, illus. $10 or 70s. *(B) 987*

FORESTRY

JAMES, N. D. G.

The forester's companion. Oxford, Blackwell, for the Royal Forestry Society of England and Wales, 1955. pp.xiv,312, illus., tables, diagrs., bibliog. 12s. 6d. *(B) 988*

LIVESTOCK

YAPP, W. W., *and* **NEVENS, W. B.**

Dairy cattle; selection, feeding and management. 4th ed. New York, Wiley; London, C. & H., 1955. pp.xii,420, front, plates, illus., tables, diagrs. 38s. or $4.75. *Farm series.* *(B) 989*

[See also *973*]

DAIRYING

[See *989*]

COMMUNICATIONS

LONDON UNIVERSITY. University College. *Communications Research Centre.*

Studies in communication; with an introduction by B. Ifor Evans. Secker & Warburg, 1955. pp.vii,182, plates, diagrs. 21s. *(A) 990*

PRINTING AND PUBLISHING

ASHWORTH, J.

Operation and mechanism of the linotype and intertype. Staples Press, 1955. 2 v., illus., plans, tables, diagrs. Each volume 30s. 'Deals fully with the design, capacity, operating and production methods, adjustment and working maintenance of these line composing machines.' *(B) 991*

STEINBERG, S. H.

Five hundred years of printing; with a foreword by B. Warde. Harmondsworth, Penguin Books, 1955. pp.277, plates, bibliog. 3s. 6d. *Pelican books.* 'A comprehensive general history of printing, embodying all modern research.' *(B) 992*

[See also *937*]

INDUSTRIAL ORGANIZATION

ARIES, R. S., *and* NEWTON, R. D.

Chemical engineering cost estimation. New York, London, McG.-H., 1955. pp.xv,263, tables, diagrs., bibliog. 45s. or $6. *McGraw-Hill series in chemical engineering, ed. by S. D. Kirkpatrick.* *(C) 993*

CHISHOLM, C., *ed.*

Communication in industry. Business Publications, in association with Batsford, 1955. pp.xi,284, plates, illus., diagrs., bibliog. 35s. *(C) 994*

DRUCKER, P. F.

The practice of management. Heinemann, 1955. pp.ix,355, bibliog. 25s. *(C) 995*

NATIONAL DOCK LABOUR BOARD

An introduction to port working; by A. H. J. Bown. The Board, 1955. pp.67. 2s. 6d. *(A) 996*

[See also *927*]

CHEMICAL TECHNOLOGY

HARRY, R. G.

Modern cosmeticology; with a foreword by P. B. Mumford. 4th ed. L. Hill, 1955. pp.xxxiv,786, plates, tables, diagrs. 65s. *Principles and practice of modern cosmetics, vol. 1.* *(B) 997*

[See also *993*]

Fuel Technology

BRAME, J. S. S., *and* KING, J. G.

Fuel: solid, liquid and gaseous. 5th ed. rewritten by J. G. King. E. Arnold, 1955. pp.xii,551, front., illus., map, tables, diagrs., bibliog. 50s. *(B) 998*

SELL, G., *ed.*

Reviews of petroleum technology, 1952–1954. 14th ed. Institute of Petroleum, 1955. pp.220. 35s. *(B) 999*

Food Technology

AYLWARD, F., *ed.*

Food technology processing and laboratory control. Newnes, 1955. pp.viii,303, illus., tables, diagrs., bibliogs. 21s. *Chemical and chemical engineering series, general ed., E. Molloy.* *(B) 1000*

BLANCK, F. C., *ed.*
Handbook of food and agriculture. New York, Reinhold; London, C. & H., 1955. pp.vii,1039, illus., tables, diagrs., bibliog. 100s. or $12.50. *(C) 1001*

DICKINSON, D., *and* **GOSSE, P.**
Laboratory inspection of canned and bottled foods. London, Glasgow, Blackie, 1955. pp.ix,148, tables, diagrs. 10s. 6d. *(B) 1002*

MANUFACTURES

METALS

POWELL, C. F., *and others*
Vapor-plating: the formation of coatings by vapor-deposition techniques, by C. F. Powell, I. E. Campbell and B. W. Gonser. New York, Wiley; London, C. & H., 1955. pp.vii,158, illus., tables, diagrs., bibliog. 44s. or $5.50. *Electrochemical Society. Publications.* *(C) 1003*

FINE MECHANISMS

KING, H. C.
The history of the telescope: with a foreword by Sir Harold Spencer Jones. Griffin, 1955. pp.xvi,456, illus., diagrs., bibliogs. 50s. 'A readable book which will undoubtedly become a standard reference book on the subject.' *(B) 1004*

TOWN AND COUNTRY PLANNING

NAIRN, I.
Outrage. Architectural Press, 1955. pp.[4],365–456, illus., maps. 12s. 6d. *(B) 1005*

ARCHITECTURE

LETHABY, W. R.
Architecture: an introduction to the history and theory of the art of building. 3rd ed. with a new preface and epilogue by B. Ward. O.U.P., 1955. pp. xxxii,220, front., plates, illus. 18s. *(B) 1006*

NUFFIELD PROVINCIAL HOSPITALS TRUST, and BRISTOL UNIVERSITY.
Studies in the functions and design of hospitals: the report of an investigation sponsored by the Nuffield Provincial Hospitals Trust and the University of Bristol. O.U.P., 1955. pp.xx,192, illus., plans, tables, diagrs., bibliog. 63s. *(B) 1007*

PHOTOGRAPHY

The **YEAR'S** 16mm films, 1954; classified index of all the new films reviewed in the monthly journal 'Film User' and released during 1954. Current Affairs, 1955. pp.viii,163. 6s. 6d. *(D) 1008*

GEOGRAPHY

KUENEN, P. M.
Realms of water. Cleaver-Hume Press, 1955. pp.327, illus., maps. 35s. *(A/B) 1009*

BIOGRAPHY

STRONG, L. A. G.
Dr. Quicksilver, 1660–1742: the life and times of Thomas Dover, M.D. Melrose, 1955. pp.184, front., plates. 21s. *Rogues gallery series, no. 3.* *(A) 1010*

PUBLISHERS

The following abbreviations are used in the *Aslib Book-List:*

A. & U.: Allen & Unwin

C. & H.: Chapman and Hall

C.U.P.: Cambridge University Press

H.M.S.O.: Her Majesty's Stationery Office

L.G.: Longmans, Green

McG.-H.: McGraw-Hill

O. & B.: Oliver and Boyd

O.U.P.: Oxford University Press

SUBJECT INDEX

Reference is to page

Aeronautical engineering, 88
Agriculture, 88
Architecture, 90
Astronomy, 85

Bibliography, 83
Biography, 90

Chemical technology, 89
Chemistry, 86
Communications, 88

Dairying, 88
Directories and yearbooks, 84
Documentation, 83

Economics, 84
Education, 85
Electrical engineering, 87
Engineering, 87

Fine mechanisms, 90
Food technology, 89
Forestry, 88
Fuel technology, 89

General science, 83
Geography, 90

Industrial organization, 89
Insurance, 85

Librarianship, 83
Livestock, 88

Machinery, 88
Manufactures, 90
Marine engineering, 88
Mathematics, 85
Metals, 90
Meteorology, 86
Mining, 88

Pests, 88
Pharmacy, 87
Philosophy, 84
Photography, 90
Physics, 86
Printing and publishing, 89
Public health, 87

Social sciences, 84
Steam engineering, 87

Testing materials, 87
Town and country planning, 90

Veterinary science, 87

Workshop practice, 87

Zoology, 86

AUTHOR OR TITLE INDEX

Anthony, D. J., 973
Appleton, *Sir* E., *ed.*, 967
Aries, R. S., 993
Ashworth, J., 991
Association of Education Committees, 936
Aylward, F., *ed.*, 1000

Barlow, R. B., 969
Batchelor, G. K., *ed.*, 964
Beneke, R. R., 984
Benge, R. C., *ed.*, 934
Blair, C., 981
Blanck, F. C., *ed.*, 1001
Blüh, O., 957
Bondi, H., *ed.*, 964
Booth, A. D., *ed.*, 928
Born, L. K., *comp.*, 931
Bown, A. H. J., 996
Braithwaite, R. B., 938
Brame, J. S. S., 998
Bristol University, 1007

Campbell, I. E., 1003
Campbell, N., 966
Carr, T. H., 978
Cartter, A. M., 940
Cartwright, M. L., 952
Chaloner, W. H., *trans.*, 944
Chisholm, C., *ed.*, 994
Coddington, E. A., 953

Deane, P., *ed.*, 930
Dickinson, D., 1002
Doss, M. P., 927
Drucker, P. F., 995

Economic Commission for Europe, *Industry Division*, 929
Education committees year book, 1955-56, 936
Elder, J. D., 957
Ellison, M. A., 955

Feenberg, E., 958
Francis, W., 977

Galenson, W., 941
Garratt, D. C., 970
Goldsmith, R. W., 942
Gonser, B. W., 1003
Gosse, P., 1002
Green, W. G., 974
Gunston, J., 985

Harry, R. G., 997
Hausner, H. H., 959
Henderson, W. O., *trans.*, 943
Hoffman, W. G., 943
Houthakker, H., 946

Institution of Metallurgists, 976
International Association for Research in Income and Wealth, 930
International Institute of Differing Civilizations, 939

Jacks, M. L., 948
James, N. D. G., 988
Judges, A. V., *ed.*, 949

Kaiser, T. R., *ed.*, 956
King, H. C., 1004
King, J. G., 998
Kirkpatrick, S. D., *ed.*, 993
Kuenen, P. M., 1009

Lethaby, W. R., 1006
Levison, N., 953
Lewis, W. A., 944
Library of Congress, 931
Littler, D. J., 960
Locke, W. N., *ed.*, 928
London University. University College. *Communications Research Centre* 990
Lydall, H. F., 945

Martin, W. T., *ed.*, 953
Molloy, E., *ed.*, 1000
Morrah, D., 947
Muenscher, W. C. L., 987

Nairn, I., 1005
National Dock Labour Board, 996
Nevens, W. B., 989
Newton, R. D., 993
Newton, R. N., 982
Nuffield Provincial Hospitals Trust 1007

Pauli, W., *ed.*, 961
Postell, W. D., 933
Powell, C. F., 1003
Prais, S. J., 946
Pryor, E. J., 980

Raffle, J. F., 960
Richard, R. K., 954
Riley, M. W., 979
Roboff, S. B., 959
Rose, R. L., Smith-, *ed.*, 967
Rosenfeld, L., *ed.*, 961

Schmidt, J., 966
Seatrail, 986
Sell, G., *ed.*, 999
Simon, E., 950
Skaife, S. H., 968
Skilton, Charles, Ltd., 937
Slater, J. C., 962
Smith, E. F., 963
Smith-Rose, R. L., *ed.*, 967
Squire, T. R., 971
Standing Committee on Education in Librarianship, 934
Steinberg, S. H., 992
Stillson, B., 983
Störmer, F. C. M., 967
Stott, C. A., 934
Strong, L. A. G., 1010
Sturrock, P. A., 964
Symposium on Meteor Physics, 1954, Jodrell Bank Experimental Station, 956

Thomson, *Sir* G., 926

United Nations. Economic Commission for Europe. *Industry Division*, 929
United States. Library of Congress, 931

Wallis, T. E., 972
Wayne, J. M., *comp.*, 932
Weisskopf, V., *ed.*, 961
Whilde, N. E., 951
Wood, D. R. J., 965

Yapp, W. W., 989
Yarwood, J., 975
Year's 16 mm films, 1954, 1008

WATERLOW & SONS LIMITED, LONDON & DUNSTABLE.